DHARAMPETH M.P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

ACADEMIC SESSION -2023-24

Internal Assessment of Students

1. CLASS TEST
2. ASSIGNMENT
3. SEMINAR

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

SESSION (2023-24)

25th Oct., 2023

All the students of B. Sc. Sem.-I, III & V are hereby informed that, the college will be conducting the test examinations as per the schedule given below:

Attendance is compulsory and the test examination data will be considered for internal assessment marks.

TIME TABLE FOR UNIT-WISE TEST EXAMINATION

Sr. No.	Date	Time	Subject (SEM.-I / SEM-III / SEM.-V)	Unit
1.	28th Oct., 2023	11.00am to 12.30pm	Mathematics-I / Botany-I	Unit-I & II
		02.00pm to 03.30pm	Mathematics-II / Botany-II	Unit-I & II
2.	30th Oct., 2023	11.00am to 12.30pm	Mathematics-I / Botany-I	Unit-III & IV
		02.00pm to 03.30pm	Mathematics-II / Botany-II	Unit-III & IV
3.	31st Oct., 2023	11.00am to 12.30pm	Statistics-I / Microbiology-I / Electronics-I	Unit-I & II
		02.00pm to 03.30pm	Statistics-II / Microbiology-II / Electronics-II	Unit-I & II
4.	01st Nov., 2023	11.00am to 12.30pm	Statistics-I / Microbiology-I / Electronics-I	Unit-III & IV
		02.00pm to 03.30pm	Statistics-II / Microbiology-II / Electronics-II	Unit-III & IV
5.	02nd Nov., 2023	11.00am to 12.30pm	Physics-I / Zoology-I	Unit-I & II
		02.00pm to 03.30pm	Physics-II / Zoology-II	Unit-I & II
6.	03rd Nov., 2023	11.00am to 12.30pm	Physics-I / Zoology-I	Unit-III & IV
		02.00pm to 03.30pm	Physics-II / Zoology-II	Unit-III & IV
7.	04th Nov., 2023	11.00am to 12.30pm	Chemistry-I / Computer Science-I	Unit-I & II
		02.00pm to 03.30pm	Chemistry-II / Computer Science-II	Unit-I & II
8.	07th Nov., 2023	11.00am to 12.30pm	Chemistry-I / Computer Science-I	Unit-III & IV
		02.00pm to 03.30pm	Chemistry-II / Computer Science-II	Unit-III & IV
9.	08th Nov., 2023	11.00am to 12.30pm	Compulsory English **(SEM-I Only)**	Unit-I & II
		02.00pm to 03.30pm	Second Language **(SEM-I Only)**	Unit-I & II
10.	9th Nov., 2023	11.00am to 12.30pm	Compulsory English **(SEM-I Only)**	Unit-III & IV
		02.00pm to 03.30pm	Second Language **(SEM-I Only)**	Unit-III & IV

Prof. Mrs. Varsha Rangari
Convener Exam Committee

Prof. Pitambar Humane
IQAC Coordinator

Dr. Akhilesh Peshwe
Principal

Dr. Varsha V. Rangari
Professor & Head
Department of Electronics
Dharampeth M.P. Deo Memorial
Science College, Nagpur

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- I Examination

Subject: Physics

Paper-I (Properties of Matter and Mechanics)

Unit-I, II

Time: 1.5 Hours] [**Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	Describe experimental method to determine the modulus of rigidity of the material of a wire by using Maxwell's needle.	5
(B)(i)	Show that Elastic potential energy per unit volume is equal to ½ (Stress) (Strain).	3
(ii)	Find the force required to stretch a steel wire 1 cm^2 in cross-section to double its length ($Y=2x10^{11}N/m^2$).	2

OR

(C)	Find the relation connecting Youngs Modulus(Y), Modulus of Rigidity(η) and Poisson's Ratio(σ).	2½
(D)	Obtain the expression for the torque required to twist a cylinder.	2½
(E)	Derive the expression for depression of cantilever beam fixed at one end and loaded at the other	2½
(F)	Calculate the modulus of rigidity of copper, given that for copper $Y=11.7x10^{10}N/m^2$ and $\sigma=0.3$	2½

EITHER

2.(A)	State and prove Bernoulli's theorem.	5
(B)(i)	Obtain an expression for critical velocity of the liquid using dimensional analysis	3
(ii)	Calculate the mass of water per second initially flowing out of the hole, if the depth of water in an open tank is 2.5m and a small hole of cross-section 3cm^2 is made at the bottom of tank. (ρ =1000 kg/m^3)	2

OR

(C)	Explain Automizer on the basis of Bernoulli's principle	2½
(D)	Define co-efficient of viscosity. Obtain its units and dimensions	2½
(E)	Explain the effect of temperature and pressure on the viscosity of liquid	2½
(F)	Calculate the volume of water flowing in 10 minutes through a tube of diameter 0.1 cm and length 40 cm under a constant pressure head of 20 cm of water. The co-efficient of viscosity of water at room temperature is 8.2×10^{-3} poise.	2½

3. Attempt any **Five** questions

(i) Find the relation connecting Y, K and η?

(ii) What is Stress and Strain?

(iii) Define Hooke's law

(iv) Define Poisson's Ratio (σ)

(v) What is terminal velocity?

(vi) State Stoke's law of viscosity.

(vii) What is streamlined flow.

(viii) Define Viscosity. 1x5

Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Science (B.Sc.) SEM- I Examination
Subject: Physics
Paper-I (Properties of matter and Mechanics)
Unit-III, IV

Time: 1.5 Hours] [**Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) Derive the equations for velocity and acceleration of a particle moving along curve path in two dimensional Cartesian coordinate system. 5

(B)(i) Explain the molecular theory of surface tension. 3

(ii) Calculate the height to which a liquid will rise in a capillary tube of radius 0.2 mm when surface tension of liquid is 26×10^{-3} N/m and density 800 kg/m3. Take angle of contact as Zero. 2

OR

(C) What is surface energy ? Derive the relation between surface tension and surface energy. 2

(D) Why the surface of water is concave and surface of mercury convex, when it is kept in contact with solid ? 3

(E) A particle moving in a plane has position coordinates x = 3 and y = 4. Components of its speed are sec/m5x =& and sec/m8y =& at some instant. Find the radial and transverse components of its speed in the form of polar coordinates r and θ. 2

(F) State Newton's laws of motion. Discuss the limitations of Newton's Laws of motion. 3

EITHER

2.(A) What is Law of conservation of linear momentum 3

(B)(i) What is the centre of mass velocity ,Derive an expression of cantre of mass of velocity. 3

(ii) State Newton's laws of motion. Discuss the limitations of Newton's Laws of motion. 4

OR

(C) Calculate the moment of inertia of the earth about its axis of rotation, given that radius of the earth is 6400 km. Assume the earth to be a sphere of uniform density equal to 5520 kg/m^3 2

(D) State and prove the law of conservation of energy for a single particle 2

(E) Discuss the phenomenon of collision in one dimension between two particles when the collision is in elastic. 3

(F) Obtain an expression for the moment of inertia of a solid cylinder about an axis passing through its center and perpendicular to its own axis. 3

3. Attempt any **Five** questions 1x5

(i) Calculate the work done in blowing a soap bubble to increase it from 0.01 m. to 0.1 m. Surface tension of soap solution is 26 × 10–3 N/m

(ii) What is the center of mas?

(iii) Distinguish between inertial and non-inertial frame of reference.

(iv) Calculate the radius of gyration of a solid sphere rotating about its diameter, if its radius is 5 cm.

(v) What is capillary action ?

(vi) Newton's first law of motion

(vii) What impulsive force.

(viii) What is SI unit of angular momentum

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- I Examination

Subject: Physics

Paper-II (Electrostatics, Time Varying Fields and Electric Currents)

Unit-I, II

Time: 1.5 Hours] [**Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	What is electric field intensity? Show that electric field intensity at a point on its axis is twice as that of a point at the same distance on equatorial point?	5
(B)(i)	State the Coulomb's law and express it in vector form?	3
(ii)	Find the force of repulsion between two electrons separated by distance 5×10^{-10} m. (Given $e= 1.6\times10^{-19}$ C, $1/4\Pi\varepsilon_o = 9\times10^{-9}$ Nm^2/C^2)	2

OR

(C)	Obtain the expression for electric potential due to point charge in vacuum.	2½
(D)	Derive the relation E= - grad V	2½
(E)	Find the electric field due to surface charge distribution?	2½
(F)	If the potential in a region is $V= xy^2-4xy^2+3zx^2$, what will be the electric filed (E) at (1, 0, 2)?	2½

EITHER

2.(A)	What is polarization? State and explain the types of polarization?	5
(B)(i)	What is capacitor? Derive the expression for the capacity of parallel plate capacitor with dielectrics?	3
(ii)	Two parallel plates each of area 100 cm^2 are charge with equal and opposite charge 1.0×10^{-7} C. Calculate: i) surface charge density, ii) electric field in between the parallel plates?	2

OR

(C)	Derive the relation between D, E and P?	2½
(D)	Explain the classification of substance on the basis of their electric behavior.	2½
(E)	The permittivity of dielectric substance is 1.46×10^{-12} C^2/Nm^2. Calculate its dielectric constant and electrical susceptibility?	2½
(F)	Two parallel rectangular plates each of area 6.45×10^{-4} m^2 are placed at a separation 2×10^{-3} m, separated by dielectric slab of dielectric constant 6.0, calculate the capacitance of the capacitor?	2½

3. Attempt any **Five** questions

(i) What is electric dipole?

(ii) Define electric potential

(iii) What is conservative field?

(iv) Define Dielectrics

(v) What is polar dielectric?

(vi) What is electric susceptibility?

(vii) Define dielectric constant.

(viii) Write the examples of non-polar dielectrics 1x5

Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Science (B.Sc.) SEM- I Examination
Subject: Physics
Paper-II (Time varying Fields)
Unit-III, IV

Time: 1.5 Hours] **[Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	State and Explain Faraday's Law of EM induction	2
(B)(i)	Explain different Energy losses in transformer?	3
(ii)	State and Explain Kirchhoff's voltage and current Laws. Explain Quality factor.	3
(iii)	If R1 = 2Ω, R2 = 5Ω R3 = 5Ω, determine the electric current flows in the circuit. Voltage applied to the circuit is 10 V.	2

OR

(C)	Calculate the rms value of current.	2½
(D)	Obtain the expression for growth of current in LR circuit.	2½
(E)	Derive the equation for continuity	2½
(F)	Calculate the rms current for the period t = 0 to t = T sec. Electric current in the circuit is given by I=Io(t/T)	2½

EITHER

2.(A) Derive the expression for impedance in LCR circuit. 5

(B)(i) Obtain an expression for current in pure Inductive circuit. 3

(ii) A sinusoidal voltage of peak value 283 V and frequency 50 Hz i applied across a LCR circuit in which R=3Ω , L=25.48 mH , C=796 μF. Find the impedance of the circuit. 2

OR

(C) Explain the ac Power in pure resistive circuit 2½

(D) Define capacitive resistance and Inductive resistance 2½

(E) Explain Quality Factor and Power Factor. Find their equations. 2½

(F) A sinusoidal voltage of peak value 283V and frequency 50Hz is applied to a series LCR circuit in which R=3Ω,L=25.48mH and C=786μF. Find : a) Impedance of the circuit 2½
b) The phase difference between the voltage across the source and the current
c) The power factor.

3. Attempt any **Five** questions

(i) What is application of J operator method?

(ii) When the resistances are in parallel then which Kirchhoff's law is applicable?

(iii) Define self and Mutual Inductance

(iv) Define current density.

(v) What is resonance?

(vi) What is phase difference in pure Resistive circuit.

(vii) State Lenz's law.

(viii) Define sharpness of resonance 1x5

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-1 PSM

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	URVASHI JIVANPRAKASH LIMJE	8459021468	urvashilimje5@gmail.com						
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3.	OM SHRIRAM KALASKAR	8329227284	kom84257@gmai.com						
4.	TUSHAR VASUDEO MANERAO	8788771705	Tushar manerao444@gmail						
5.	GIRENDRA KANHAIYALAL CHAUDHARY	7972882455	Girendra1C8@gmail.com						
6.	SUMIT RAMBABU MAHATO	7980929105	sumitrahato964@gmail.com						
7.	~~Rohit m Patil~~	~~4322673682~~	~~Rohit~~ Patil Rohit 2080@gmail.com						
8.									
9.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-7,8,9,10 PCM

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	ABHIJIT SHYAMKISHOR RAUT	9607185579	abhijitraut2737@gmail.com	A. Raut	A. Raut	A. Raut	A. Raut		
2.	ABHISHEK AMOL THAKRE	9175026526	abhishekthakre86@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]		
3.	ANISH HARENDRA DUBEY	7796804835	anishdubeyngp@gmail.com	Anish	Anish	Anish	Anish		
4.	ASHWINI PRAKASH NAKHATE	7744960760	ashwinnakhate@gmail.com	Nakhate	Nakhate	Nakhate	Nakhate		
5.	AYUSH HEDAU	7757932849	ayushhedau012@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]		
6.	CHIRAG BHOJRAJ MANMODE	3699893977	chirag manmode@gmail.com	Chirag	Chirag	Chirag	Chirag		
7.	DEEPAK AKSHAYKUMAR SONI	7841014572 4	Deepaksoni2004@gmail.com	Soni	Soni	Soni	Soni		
8.	DIVYANSH SINGH	7720035510	neer9465@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]		
9.	GANESH ISHWAR WAGHMARE								
10.	KHUSBU JAYKISHOR YADAV	9579282717	yjaykishoryadav013@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]		
11.	NAMRATA RAJESH HUNDIWALE								
12.	PALAK JITENDRA SINGH	7249789138	singh.palak25@gmail.com	Singh	Singh	Singh	Singh		
13.	PIYUSH MAROTI LAKSHANE								

14.	PRAJWAL PRAKASH UDAN								
15.	PRATIK SURENDRA THOOL	7972745862	pratik t28 hool @gmail.com						
16.	RAHUL RAJU BAWANE								
17.	RUDRAKSH KISHOR KHURGE	7972954523	khurgerudra@gmail.com						
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20.	SEJAL VILAS DHENGALE								
21.	TEJAS BABARAO RAJURKAR								
22.	VASHISTA PAL	8459523223	Vashisht Pal@gmail.com						
23.	VEDANT GAJANAN PARKHI	9823223235	Vedantparkhi147@gmail.com						
24.	VIKAS JAGDAMBA YADAV	7038203416	Vikasyadav06@gmail.com						
25.									
26.									

Name & Signature of Teacher In-Charge

Name & Signature of HOD Head of the Department

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Dharampeth M. P. Deo Memorial
Science College, Nagpur

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
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Principal

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-3 PME

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	HIMANSHU LILADHAR ZILE	7738521824	Himanshuzile77@gmail.com						
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5.	VEDANT DNYANESHWAR MOHANKAR								
6.									
7.									
8.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
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DEPARTMENT OF PHYSICS
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-5 PCOM

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Rem: if a
1.	PRERNA SANTOSHKUMAR SINGH	6299619449	PrernaSingh30@gmail.com	Preerna	Prerna	Prerna	Prerna		
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3.	PRATIKSHA MANOHAR UIKEY								
4.	PALLAVI PRAKASHRAO MATHANE	8975207921	Pallavimathane123@gmail.com	Pallavi	Pallavi	Pallavi	Pallavi		
5.	PALAK RANJEETNARAYAN PANDE	8421388291	Pande2005palak@gmail.com	Palak	Palak	Palak	Palak		
6.	SHASHIKANT GAJENDRA BANGADKAR	8767789682	Shashikantbangadkar37@gmail.com						
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8.	VAIDEHI SANJAY MESHRAM	9561939026	vaidehi0106@gmail.com	Vaidehi	Vaidehi	Vaidehi	Vaidehi		
9.	SHARWARI RAJESH SAHASTRABUDDHE	8830447619	sharvarisahastrabuddhe@gmail.com	Sharwari	Sharwari	Sharwari	Sharwari		
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12.	MEGHA SAMIR MANNA	7028312979	meghamanna148@gmail.com	Megha	Megha	Megha	Megha		
13.	SHUBHAM SURENDRA KUSHWAHA	7304939893	ShubhamKushwaha7304@gm	S. Kush	S. Kush	S. Kush	S. Kush		
14.	SUHANI RAJESH CHAUBEY	8263951682	schaubey50@gmail.com	Shaubey	Shaubey	Shaubey	Shaubey		

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16.	MAYURI ANIL KALE	9307540160	mayurikale863@gmail.com						
17.	AKSHAD SANJAY THAKARE								
18.	NEERAJ RAMNIVAJ VISHWAKARMA	7840904511	Neeraj vishwakarma [illegible] gmail.com						
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22.	MANDAR DILIP VYAWAHARE	9021933086	vyawaharemandar19@gmail.com						
23.	LEKHRAJ PRUTHVIRAJ WAGDE								
24.	AMAN DILIP KUMAR	7757899215	amankumar4266k@gm[illegible]						
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30.	Ro								
31.									
32.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
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Name & Signature of Head of the Department

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Principal

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Science College, Nagpur.

RTM NAGPUR UNIVERSITY PRACTICAL EXAMINATION WINTER -2023

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR CENTER

DEPARTMENT OF PHYSICS

Class: BSc. Semester- I Batch: PCM Date of Examination 31-01-2024

Sr No	Roll No	Name of students	Allotment T1	T2	Signature IA1	IA2	Total	Prac	Marks out of 30	Pass/Fail
1.	353092	ABHUIT SHYAMKISHOR RAUT	10	03	8	9	30	22	52	Fail
2.	352985	AISHWARYA SATISH THAKRE	CHE	—	NB	—	200	—	—	—
3.	353093	ABHISHEK AMOL THAKRE	09	06	7	7	29	AA		Fail
4.	353101	ANISH HARENDRA DUBEY	10	12	8	8	38	24	62	Fail
5.	352990	ASHWINI PRAKASH NAKHATE	15	17	8	8	48	23	71	PASS
6.	353110	AYUSH SURESH HEDAU	9	09	8	9	35	24	59	Fail
7.	353112	CHIRAG BHOJRAJ MANMODE	10	13	8	8	39	26	65	Fail
8.	353116	DEEPAK AKSHAYKUMAR SONI	02	10	7	8	27	AA	27	Fail
9.	353118	DIVYANSH A SINGH	07	12	7	8	34	27	61	Fail
10.	353011	KHUSBU JAYKISHOR YADAV	39	47	10	10	106	27	133	PASS
11.	353030	PALAK JITENDRA SINGH (30G-17)	30	46	10	10	96	28	124	PASS
12.	353138	PRATIK SURENDRA THOOL	27	24	9	9	69	29	98	PASS
13.	353145	RUDRAKSH KISHOR KHURGE	01	00	7	7	15	AA	15	Fail
14.	353146	RUSHIKESH DEVIDAS DEHARE	09	11	7	7	34	29	63	Fail
15.	353161	TEJAS BABARAO RAJURKAR	00	00	7	7	14	AA	14	Fail
16.	353166	VAISHISHTA ARUN PAL	16	15	8	8	47	22	69	Fail
17.	353168	VEDANT GAJANAN PARKHI	12	17	8	8	45	23	68	Fail
18.	353170	VIKAS JAGDAMBA YADAV	AA	AA	7	7	14	AA	14	Fail
19.	— — —	SEJAL DHENGALE								
20.	— — —	PRAJVALIT UDAN	—	—	—	—	—	—	—	—
21.	— — —	RAHUL BAWNE	—	—	—	—	—	—	—	—
22.	353120	GANESH WAGHMARE	12	19	8	8	47	23	70	Fail
23.	353026	NAMRATA HUNDIWALE	CHE	—	200	—	BOT	—	—	—
24.	— — —	PIYUSH LAXANE	—	—	—	—	—	—	—	—
25.	353147	SAGAR HEMRAJ BOHANE	5	5	7	7	24	21	45	Fail
26.	353084	URVASHI JIVANPRAKASH LIMJE	28	29	9	8	74	26	100	PASS
27.	353099	ANCHVEER RAJESH CHIMANE	11	08	8	8	35	25	60	Fail
28.	353134	OM SHRIRAM KALASKAR	10	03	8	8	29	23	52	Fail
29.	353122	GIRENDRA K CHAUDHARY	16	21	8	8	53	27	80	PASS
30.	353159	SUMIT RAMBHAU MAHATO	04	17	7	7	35	21	56	Fail
31.	353163	TUSHAR VASUDEO MANERAO	2	14	7	7	30	21	51	Fail

Internal Examiner External Examiner

RTM NAGPUR UNIVERSITY PRACTICAL EXAMINATION WINTER -2023

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR CENTER

DEPARTMENT OF PHYSICS

Class: BSc. Semester- I Batch: PSM/PME/PMCom Date of Exam. 01/02/2024

Sr No	Roll No	Name of students	Allotment T1	T2	IA1	Signature IA2	T1+T2	Pract	Mark Total	Pass/Fail
32.	353125	HIMANSHU LILADHAR ZILE	06	03	7	7	23	21	44	Fail
33.	353185	OM VIJAY RAUT	19	14	8	9	50	30	80	Pass
34.	353143	ROHIT MANOHAR PATIL	1	04	7	7	19	26	45	Fail
35.	353155	SHREYANSH RAVINDRA SATPUTE	22	21	9	9	61	22	83	Pass
36.	353167	VEDANT D MOHANKAR	6	9	7	8	30	27	57	Fail
37.	353079	Tanushree B Dangre	9	09	8	9	35	30	65	Fail
38.	353043	PRERNA SANTOSHKUMAR SINGH	28	29	8	8	73	26	99	Pass
39.	353033	PALLAVI PRAKASH MATHANE	27	36	10	10	83	27	110	Pass
40.	353032	PALAK RANJEETNARAYAN PANDE	15	21	8	8	52	23	75	Pass
41.	353031	PALAK PAWAN JAWADE	18	26	8	8	60	26	86	Pass
42.	353030	PALAK JITENDRA SINGH	30	46	10	10	96	28	124	Pass
43.	353020	MEGHA SAMIR MANNA	26	32	8	8	74	26	100	Pass
44.	353027	NANDINI R KALBHUT	19	30	8	9	66	27	93	Pass
45.	353016	MANALI DILIP DHARAPURE	15	29	07	09	60	27	87	Pass
46.	353017	MAYURI ANIL KALE	02	11	9	8	30	25	55	Fail
47.	352997	DIVYANI VIJAY THOSAR	21	25	9	9	64	24	88	Pass
48.	353042	PRATIKSHA MANOHARRAO UIKEY	12	22	9	8	51	AA	51	Fail
49.	353154	SHASHIKANT G BANGADKAR	02	06	7	7	22	26	48	Fail
50.	353085	VAIDEHI SANJAY MESHRAM	15	20	8	9	52	26	78	Pass
51.	353063	SHARWARI R SAHASTRABUDDHE	21	32	8	8	69	30	99	Pass
52.	353064	SHEJAL PRALHAD DHALE	9	20	8	8	45	22	67	Fail
53.	353130	MOHIT JAYLAL BHUJADE	20	16	9	08	53	26	79	Pass
54.	353156	SHUBHAM S KUSHWAHA	10	22	8	8	48	24	72	Pass
55.	353076	SUHANI RAJESH CHAUBEY	38	45	10	10	103	30	133	Pass — Ind
56.	353097	AMAN NIRANJAN BUNDE	AA	AA	7	8	15	A	15	Fail
57.	353095	AKSHAD SANJAY THAKARE	12	08	8	8	36	21	57	Fail
58.	353131	NEERAJ R VISHWAKARMA	08	12	7	8	35	24	59	~~Pass~~ Fail
59.	353104	ARPIT ARVIND GAJBHIYE	10	24	08	8	50	26	76	Pass
60.	353127	MANDAR DILIP VYAWAHARE	14	18	8	8	48	27	75	Pass
61.	353096	AMAN KUMAR	17	16	8	7	48	23	71	Pass
62.	353140	RAVISHANKAR YADAV ZADE	5	10	7	7	29	26	55	Fail
63	352984	ADITI R. WANJARI	AA	AA	7	7	14	AA	14	Fail

Total App: 63 − 4 = 59
Fail : 32
Pass : 27
% pass : 45.7 %

Internal Examiner

External Examiner

Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Science (B.Sc.) SEM- III Examination
Subject: Physics
Paper-I (Sound Waves, Acoustic, Ultrasonic and Power Supply)
Unit-I, II

Time: 1.5 Hours] [**Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) Derive the expression for speed of transverse wave in uniform stretched string 5

(B)(i) Give the relationship between group velocity and phase velocity 3

(ii) A wire stretched between two rigid supports vibrates in its fundamental mode with frequency 45 Hz. The mass of the wire is 3.5×10–2 kg and its linear mass density is 4.0×10–2 kg/m. Calculate the speed of transverse wave on the string. 2

OR

(C) Show that only odd harmonics are present in case of vibrating air column in a pipe closed at one end. 3

(D) Distinguish between a musical sound and noise with examples. 3

(E) Find the frequency in stretched string between two supports in first ,second and third mode 2

(F) Calculate the change in the intensity level of sound when intensity increases 100 times its original intensity.. 2

EITHER

2.(A) What are active and passive transducers ? Give one example of each. State and explain any four characteristics of transducers. 5

(B)(i) Explain the sound absorption and absorption coefficient.. 3

(ii) A hall has a volume of 5000 m3 . It is required to have reverberation time of 1.5 sec. What should be the total absorption in the hall ? 2

OR

(C) Explain how sound is recorded and reproduced from compact discs. 2

(D) Derive Sabine's formula for the reverberation time by Jaegar's method. 2

(E) The volume of a conference hall is 5900 m3 and its total surface area absorption of sound is 200 m2 .
Calculate the reverberation time of hall.. 3

(F) Discuss the principle and working of crystal microphone. 3

3. Attempt any **Five** questions 1x5

(i) Define 'threshold of pain'

(ii) State the names of three bones of middle ear

(iii) A transverse wave is propagating on the string and is described by equation y = 0.021 sin (30t + x), where x and y are in meters and t in seconds. Find the phase velocit

(iv) Define reverberation time

(v) What is stationary waves ?

(vi) Write any two characteristics of stationary wave.

(vii) What is human audibility?

(viii) Write any two characteristic of transducer

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- III Examination

Subject: Physics

Paper-II(Physical Optics and Electromagnetic Waves)

Unit-I, II

Time: 1.5 Hours] **[Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	Give the Experimental arrangement of formation of Newton's Rings. Derive expression for radii of Newton's Ring.	5
(B)(i)	Explain how radius of plane convex lens can be determine by Newton's ring.	3
(ii)	In Michelson's interferometer, 400 fringes cross the field of view when the movable mirror is displaced through 0.1178mm. Calculate the wavelength of monochromatic light used.	2

OR

(C)	Describe the construction of Michelson's Interferometer.	2½
(D)	Explain how refractive index of liquid can be determine by Newton's ring experiment.	2½
(E)	What is interference ? What are the conditions to obtain steady interference pattern.	2½
(F)	In Newton's ring experiment ; the diameter of 4th and 12th dark rings are 0.400cm and 0.700 cm respectively. Determine the diameter of 20th dark ring.	2½

EITHER

2.(A)	Explain the construction of Fresnel's half period zones on a plane wavefront with neat diagram.	5
(B)(i)	Explain Fraunhoffer diffraction at a circular aperture.	3
(ii)	A plane grating is illuminated by two wavelengths 5890Å and 5896Å. What should be the minimum number of lines in a grating in order to just resolve these wavelength in second order.	2

OR

(C)	Derive the expression for resolving power of grating.	2½
(D)	What is zone plate? Compare the zone plate with convex lens.	2½
(E)	Explain Rayleigh's criterion.	2½
(F)	A lens whose focal length is 40 cm forms Fraunhoffer diffraction pattern due to slit 0.3mm wide.Find the distance of first secondary maximum from the axis.(Given: wavelength of light = 5893mm).	2½

3. Attempt any **Five** questions

(i) What is Optic axis?

(ii) Why convex lens is necessary to observe Fraunhoffer diffraction pattern?

(iii) In plane diffraction grating , there are 196 lines per cm. Calculate grating element.

(iv) State Principle of superposition.

(v) What is the need of extended source?

(vi) Define Interference.

(vii) Define grating element.

(viii) What are Haidinger's Fringes? 1x5

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- III Examination

Subject: Physics

Paper-II (Physical Optics and Electromagnetic Waves)

Unit- III, IV

Time: 1.5 Hours] **[Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) What is double refraction? Explain Huygein's theory of double refraction? 5

(B)(i) Explain Malus Law. 3

(ii) An unpolrized light falls on two polarizing sheets placed one on the top of the other, what must be the angle between the characteristic direction of sheets, if the intensity of transmitted light is one-third intensity of incident beam. 2

OR

(C) Explain Construction of Nicol prism. 2.5

(D) State and prove Brewster's law. **2.5**

(E) Compare the properties of ordinary ray and extra ordinary ray. 2.5

(F) Calculate the least thikness of calcite plate, which would convert plane polarised light into circularly polarised light.(Given: μ_e=1.658 and μ_o= 1.486 , wavelength = 5890Å) 2.5

EITHER

2.(A) State and prove Poynting theorm. 5

(B)(i) Derive Maxwell's second equation. 3

(ii) Calculate the value of Poynting vector at the surface of sun if the power radiated by sun is $3.8*10^{26}$ watts while it's radius is $7*10^{8}$m. 2

OR

(C) Show that electromagnetic waves are transverse in nature. 2.5

(D) Derive Maxwell,s electromagnetic time varying equation. 2.5

(D) State the characteristics of electromagnetic waves. 2.5

(F) For a sodium there are $2.5x10^{28}$ free electrons per cubic meter. Calculate the Fermi energy. 2½

3. **Attempt any Five questions**

(i) What is Poynting vector?

(ii) What is EM wave?

(iii) Define Coulomb law from Maxwell,s equation.

(iv) Calculate the speed of electromagnetic waves in free space.

(v) Give application of polarized light.

(vi) Explain the concept of polarization.

(vii) What is circularly polarized light?

(viii) Define wave packet. 1×5

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-1

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	AGASHE DEVANGI SHRIKANT								
2.	BALLAV MEGHA SHANKAR	9421728880	meghaballav04@gmail.com	MBallav	MBallav	MBallav	MBallav		
3.	DHAGE YADNYIK SHASHANK	8623062678	ysdhage0101c@gmail.com		YD.				
4.	DUBEY SURAJ RAJBIHARI								
5.	GAIKWAD SRUSHTI ARUN								
6.	SINGH AKSHAY RANJIT	9325921260	akshaysingh85580304@gmail.com	Akshay	Akshay	Akshay	Akshay		
7.	WALTHARE NAYAN NANAJI	7841870147	Nayanwalthare4@gmail.com	Swalthare	Swalthare	Swalthare	Swalthare		
S3 → 8.	Harshata Warkhede	8263977208	harshatawarkhede@gmail.com	Hwarkhede		Hwarkhede			
S3 → 9.	Yogita Karemore	8381045307	yuvana.karmore25@gmail.com	Ykaremore		Ykaremore			
S3 →	Poresma Nimbalkar	8379980503	Nikorimbalkar@gmail.com						

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-7,8,9,10

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	BHILKAR MRUNALI DILIP VAISHALI	9322727616	Mounali Bhilkar@gmail.com	MBhilkar	MBhilkar	MBhilkar	MBhilkar		
2.	BHOYAR RITIKA RAVINDRA BABITA R BHOYAR	9834587087	ritikabhoyar28@gmail.com	Bhoyar	Bhoyar	Bhoyar	Bhoyar		
3.	BHUSARI PRATIBHA BABARAO VANDANA	7821048413	pbhusari718@gmail.com	PBB	PBB	PBB	PBB		
4.	CHAUDHARY SAURABH SURESH SANGEETA	9766341962	schaudhary559@	Schaudhary	Schaudhary	Schaudhary	Schaudhary		
5.	DAHEKAR PRATIK GANPAT CHANDA								
6.	DHURVE OM SURESH RAJSHREE								

7.	GOSAVI ADITYA SHRAWAN PRITI								
8.	KUMRE NIKHIL RAMSINGH DURGESHWARI	8999040961	kumrenikhil17@gmail.com						
9.	KUSRAM ARPITA TARACHAND VAISHALI KUSRAM	8275773801	arpitakusram23@gmail						
10.	MANSURI SOHEL KALAM JALINA								
11.	MATE ANJALI NARENDRA ARTI NARENDRA MATE								
12.	MESHRAM NIHAL VISHAL VANDANA MESHRAM	8767792960	nihalmeshram@74@gmail.com						
13.	MESHRAM RAJESH YASHWANT MALA MESHRAM								
14.	MISHRA SURAJ MUNNALAL SAVITA MISHRA								
15.	NAGAPURE BHUSHAN SUNIL DIPALI SUNIL NAGAPURE	7559474682	Bhushan nagapure5@gmail.com						

16.	PATEL ANKIT RAJKUMAR SHAKUNTALA	7758899767	ankitp.59975	Ankit	Ankit	Ankit	Ankit		
17.	PATEL MONIKA INDRABHAN ASHA PATEL	7499225468	monikaPatel7038@gmail.com	Patel	Patel	Patel	Patel		
18.	PATEL SHIVAM UMESH KANCHAN	7038889083	sp040263@gmail.com	Shivam	Shivam	Shivam	Shivam		
19.	PATLE SHITAL OMKAR SANGITA	9762596337	sp985569@gmail.com	Spatle	Spatle	Spatle	Spatle		
20.	PENDAM TANESH DHANANJAY PRITI								
21.	PISE SHRUTIKA GAJANAN SHUBHANGI	9322316336	Shrutikapise67@gmail.com	Spise	Spise	Spise	Spise		
22.	PUSHPTODE KHINESHWARI RADHESHYAM NIRMALA	8624976072	khineshwaripushptode@gmail.com	Kh	Kh	Kh	Kh		
23.	SAH VIVEK SANTOSH SAVITA								
24.	TAGDE DIVYA MORESHWAR VISHAKHA	7350090176	divyatagde808@gmail.com	Tagde	Tagde	Tagde	Tagde		
25.	TEWARE TANMAY PRAFUL TARA	9370144756	tanmayteware0743@gmail.com						

26.	THAKRE PAWAN GUNWANT SAVITA	8262969719	thakrepawan0000 @gmail.com	P Thakre	P Thakre	P Thakre	P Thakre		
27.	THAKRE YOGITA KHEMRAJ GITA	7841024463	yogitathakre2584@gmail.com	Y Thakre	Y Thakre	Y Thakre	Y Thakre		
28.	YADAV PRIYANSHU DINESH PADMA	9970192409	Py8666077@gmail.com						
29	Ashwini Raju Chaudhary	9699792732	chaudharyashwini287@gmail.com.	A.R.Chaudhary	A.R.Chaudhary	A.R.Chaudhary	A.R.Chaudhary		
30	Vaishali Mahesh Sahare	7972925403	vaishalisahare251@gmail.com	Vaishali	Vaishali	Vaishali	Vaishali		
31.	Ruchi Premlal Dwivedi	7620103790	ruchidwivedi23@gmail.com	Ruchi	Ruchi	Ruchi	Ruchi	Ruchi	Ruchi

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-3

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	HARSHATA GUNDERAO WARKHEDE	8263977208	harshatawarkhede@gmail.com						
2.	PRERNA MARTANDRAO NIMBALKAR	8379980563	Nikenimbalkar143@gmail.com						
3.	YOGITA JAYSING KAREMORE	8381045307	Swara.karemore2s@gmail.com						
4.									
5.									
6.									
7.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
for **IQAC Coordinator**

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-5

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	ADITI SUBHASH JOGI	9579962108	aditi.jogi2002@gmail.com	Aditi	Aditi	Aditi	Aditi		
2.	AMAN SUJIT KARN	9028837552	karn7817@gmail.com	Aman	Aman	Aman	Aman		
3.	ATUL DEVISINGH THAKRE	9881956591	atulthakredevisingh1@gmail.com	Thakre	Thakre	Thakre	Thakre		
4.	BADAL GENDLAL SOMKUWAR	7448247750	badalsomkuwar1@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]		
5.	DIVYANI GOPAL ZADE	7972403069	divyanizade2005@gmail	Zade	Zade	Zade	Zade		
6.	GENDLAL BHOJRAJ MACHADE	9112142728	nikhilmachade2005@gmail.com	Gendlal	Gendlal	Gendlal	Gendlal		
7.	KALYANI PRAVIN FARTADE	8766404610	kalyanifartad31@gmail.com	Fartade	Fartade	Fartade	Fartade		
8.	KARTIK NARENDRA MIRE	9604792402	kartikmire2004@gmail.com	Kartik	Kartik	Kartik	Kartik		
9.	LUCKY AKHANDPRATAP VISHWAKARMA								
10.	MAHESH PAWDE	9112875119	pawdemahesh97@gmail.com	Pawde	Pawde	Pawde	Pawde		
11.	MONU PARDHARI PAL	7350450573	monupal7350450@gmail.com	Pal	Pal	Pal	Pal		

12.	MUSKAN CHANDRASHEKHAR VAIDYA	9304773287	muskanvaidya9@gmail.com						
13.	PRACHI GAURISHANKAR PARDHI	7263935912	Prachipardhi282@gmail.com	Prachi	P.G.Pardhi	P.G.Pardhi	P.G.Pardhi		
14.	PRACHI KRUSHNA GAJBHIYE								
15.	PRATIKSHA GHANSHYAM BARVE	9579836818	Pratikshabarve49@gmail.com	P.Barve	P.Barve	P.Barve	P.Barve		
16.	SAMIKSHA AMRUT PANCHBUDHE	9763075890	samikshapanchbudhe363@gmail.com	S.Panchbudhe	S.Panchbudhe	S.Panchbudhe	S.Panchbudhe		
17.	SAMIKSHA DALCHAND SHENDRE	7420881158	samikshashendre08@gmail.com	S.Shendre	S.Shendre	S.Shendre	S.Shendre		
18.	TANUJA GHANSHYAM YELURE	9529447565	tanujayelure748@gmail.com	G.G.Yelure	G.G.Yelure	G.G.Yelure	G.G.Yelure		
19.	TRUSHABH DIPANKAR SAHA	8087300294	trushabh.saha2004@gmail.com						
20.	VAIDEHI PRAMOD NAGOLKAR	9325963446	vaidehinagolkar076@gmail.com	Vaidehi	Vaidehi	Vaidehi	Vaidehi		
21.	VIBHANSHU KRUSHNA TAJNE	9561232204	Vibhanshutajne7@gmail.com	Vibhanshu	Vibhanshu	Vibhanshu	Vibhanshu		
22.	ARJU RAI	8149194497	raju06@gmail.com						
23.	Lucky K. Navghare	9359626522	navghrelucky@gmail.com	Lucky	Lucky	Lucky	Lucky		
24.	Hitik Harish Hiranwal	7498066424	Rikhiranwal97@gmail.						
25.	Pratik Devidas Chalakh	9021640532	Pratikchalakh00@gmail.com	P.Chalakh	P.Chalakh	P.Chalakh	P.Chalakh		

26.	Pratik Harish Hirwani	8329788243	Pratik Hirwani@gmail.com	Pratik	Pratik	Pratik	Pratik		
27.	Arju Rai	8149194497	ranjuo8@gmail.com	Rai	Rai	Rai			
28.	Kalyani P. Tastade	8766605610	Kalyanifastade31@gmail.com	Tastade	Tastade	Tastade			
29.									
30.									
31.									
32.									
33.									
34.									
35.									
36.									
37.									
38.									
39.									
40.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

RTM NAGPUR UNIVERSITY PRACTICAL EXAMINATION WINTER -2023

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR CENTER

DEPARTMENT OF PHYSICS

Class: BSc. Semester- III Batch: PCM Date of Examination 17-01-2024

Sr No	Roll No	Name of students	T1	T2	SM1	SM2	Total	Prac	Total	Pass Fail
1	287215	MRUNALI BHILKAR	20	29	9	10	68	24	92	Pass
2	287238	RITIKA BHOYAR	20	20	9	10	59	27	86	Fail
3	287230	PRATIBHA BHUSARI	20	24	9	10	63	28	91	Pass
4	287317	SAURABH CHAUDHARY	24	21	9	10	64	24	88	Pass
5		PRATIK DAHEKAR								
6	287302	OM DHURVE	00	00	8	8	16	AA	16	Fail
7	287277	ADITYA GOSAVI	00	00	8	8	16	19	35	Fail
8	287300	NIKHIL KUMRE	03	18	9	9	39	23	62	Fail
9	287177	ARPITA KUSRAM	21	29	9	9	68	25	93	Pass
10	287319	SOHEL MANSURI	00	08	8	8	24	18	42	Fail
11	287171	ANJALI MATE	20	22	8	8	48	20	68	Fail
12	287299	NIHAL MESHRAM	04	19	9	10	42	21	63	Fail
13	287312	RAJESH MESHRAM	02	07	8	8	25	AA	25	Fail
14	287320	SURAJ MISHRA	07	13	8	8	36	21	57	Fail
15	287286	BHUSHAN NAGAPURE	00	00	8	10	18	21	39	Fail
16	287281	ANKIT PATEL	9	21	8	8	46	27	73	Pass
17	287214	MONIKA PATEL	12	25	9	10	56	30	86	Pass
18	287318	SHIVAM PATEL	24	25	9	10	68	30	98	Pass
19	287249	SHITAL PATLE	22	31	9	9	71	28	99	Pass
20	287322	TANESH PENDAM	00	AA	8	8	16	AA	16	Fail
21	287252	SHRUTIKA PISE	22	29	10	10	71	27	98	Pass
22	287204	KHINESHWARI PUSHPTODE	23	26	10	10	69	25	94	Pass
23	287333	VIVEK SAH	04	12	8	8	32	18	50	Fail
24	287186	DIVYA TAGDE	20	25	9	9	63	26	89	Pass
25	287323	TANMAY TEWARE	00	00	8	8	16	25	21	Fail
26	287303	PAWAN THAKRE	16	18	9	9	52	AA	52	Fail
27	287273	YOGITA THAKRE	21	23	9	9	62	21	83	Pass
28	287308	PRIYANSHU YADAV	16	11	9	10	46	33	69	Fail
29	287241	RUCHI P. DWIVEDI	27	31	9	10	77	27	104	Pass
30	287191	ASHWINI R. CHAUDHARY	32	44	9	10	95	23	118	Pass
31	287266	VAISHALI M. SAHARE	7	08	9	9	33	22	55	Fail
70	287212	Megha B Chollar	43	46	10	10	109	30	139	Pass
69	287182	Pratik S Agashe	00	02	13	13	28	00	28	Fail

Internal Examiner

RTM NAGPUR UNIVERSITY PRACTICAL EXAMINATION WINTER -2023

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR CENTER

DEPARTMENT OF PHYSICS

Class: BSc. Semester- III Batch: PSM/PME/PMCom Date of Exam. 18/01/2024

Sr No	Roll No	Name of students	T_1	T_2	IA1	IA2	Total	Prac Total	Total	Pass/Fail	
32	287168	ADITI SUBHASH JOGI	26	34	10	9	79	26	105	Pass	
33	287279	AMAN SUJIT KARN	14	20	9	8	51	24	75	Pass	
34	287284	ATUL DEVISINGH THAKRE	07	17	9	8	41	22	63	Fail	
35	287285	BADAL GENDLAL SOMKUWAR	21	19	9	9	58	29	87	Pass	
36	287187	DIVYANI GOPAL ZADE	36	32	10	9	87	30	117	Pass	
37	287289	GENDLAL BHOJRAJ MACHADE	25	32	10	9	76	28	104	Pass	
38	287201	KALYANI PRAVIN FARTADE	26	22	10	08	66	25	91	Pass	
39	287291	KARTIK NARENDRA MIRE	AP	AA	10	8	18	20	38	Fail	
40	287292	~~LUCKY AKHANDPRATAP VISHWAKARMA~~	~~18~~	~~18~~	~~9~~	~~9~~	~~54~~	~~23~~	~~77~~	Pass	Zoology
41	287294	MAHESH PAWDE	33	32	10	9	84	28	112	Pass	
42	287297	MONU PARDHARI PAL	00	13	10	9	32	19	51	Fail	
43	287216	MUSKAN CHANDRASHEKHAR VAIDYA	20	14	10	9	53	23	76	Pass	
44	287223	PRACHI GAURISHANKAR PARDHI	21	17	10	9	57	26	83	Pass	
45	287224	PRACHI KRUSHNA GAJBHIYE	20	14	8	8	50	19	69	Pass	
46	287231	PRATIKSHA GHANSHYAM BARVE	19	23	10	10	62	26	88	Pass	
47	287246	SAMIKSHA AMRUT PANCHBUDHE	21	24	10	10	65	28	93	Pass	
48	287247	SAMIKSHA DALCHAND SHENDRE	19	32	10	9	70	23	93	Pass	
49	287260	TANUJA GHANSHYAM YELURE	21	26	10	8	65	28	93	Pass	
50	287326	TRUSHABH DIPANKAR SAHA	06	08	9	8	31	23	54	Fail	
51	287264	VAIDEHI PRAMOD NAGOLKAR	19	21	10	9	59	20	79	Pass	
52	287331	VIBHANSHU KRUSHNA TAJNE	04	19	9	9	41	20	61	Fail	
53	287305	PRATIK H. HIRANWAR	03	18	9	8	38	22	60	Fail	
54	287290	HRITIK H. HIRANWAR	1	18	9	8	36	20	56	Fail	
55	287304	PRATIK D. CHALAKH	04	25	8	8	45	21	66	Fail	
56	287293	LUCKY K. NAVGHARE	18	18	9	9	54	23	77	Pass	
57	287183	AGASHE DEVANGI SHRIKANT	00	00	13	13	26	00	26	Fail	
58	287212	BALLAV MEGHA SHANKAR	43	46	10	10	109	30	139	Pass	Pass
59	287334	DHAGE YADNYIK SHASHANK	23	21	8	8	60	24	84	Pass	
60	287321	DUBEY SURAJ RAJBIHARI	AA	08	8	8	24	AA	24	Fail	
61	287257	GAIKWAD SRUSHTI ARUN	03	30	8	8	49	AP	49	Fail	
62	287278	SINGH AKSHAY RANJIT	32	24	9	9	74	20	94	Pass	
63	287298	WALTHARE NAYAN NANAJI	00	04	9	9	22	18	40	Fail	
64	287193	HARSHATA GUNDERAO WARKHEDE	25	03	9	9	46	22	68	Fail	
65	287234	PRERNA MARTANDRAO NIMBALKAR	19	04	8	8	39	20	59	Fail	
66	287335	YOGITA JAYSING KAREMORE	01	01	08	08	18	22	40	Fail	
67	287176	ARJU SANJEEV RAI	26	27	08	08	69	30	99	Pass	
68	287287	Cezane Salame	13	04	8	8	33	22	55	Fail	

Due No. 66
Fail : 32
Pass : 34
% : 51.5

Internal Examiner

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- V Examination

Subject: Physics

Paper-I (Atomic Physics, Free Electron Theory and Statistical Physics)

Unit-I, II

Time: 1.5 Hours] **[Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	Explain Anomalous Zeeman Effect.	5
(B)(i)	What are the quantum numbers associated with an electron in an atom?	3
(ii)	A beam of electron enters a uniform magnetic field of flux density 1.2 Tesla. Find the energy difference between the electrons whose spins are parallel and antiparallel to the field.	2

OR

(C)	Explain Pauli's exclusion principle, find the maximum number of electrons in a shell and sub-shell.	2½
(D)	What is Bohr's atomic model? Give its drawbacks.	2½
(E)	Explain the basic concept of vector atomic model: (i) Spatial quantization (ii) Spin quantization.	2½
(F)	Calculate the speed of electron in the 1st orbit of hydrogen atom. ($e=1.6\times10^{-19}C$, $h=6.63\times10^{-34}J\text{-}s$, $c=3\times10^{8}m/s$, $\varepsilon_0=8.85\times10^{-12}C^2/N\text{-}m^2$).	2½

EITHER

2.(A)	Using the free electron gas in one dimensional box, obtain the expression for energy.	5
(B)(i)	On the basis of Band theory of solids distinguish between metal, semiconductor and insulator	3
(ii)	An insulator has an optical absorption which occurs for all wavelengths shorter than 1800 A^0. Find the width of forbidden energy band for this insulator.	2

OR

(C)	Derive the expression for electrical conductivity of metal in terms of mean free path of free electrons.	2½
(D)	Obtain an expression for the thermal conductivity from the free electron theory of metals.	2½
(E)	Determine the relation between Hall coefficient 'R_H' and mobility 'μ'	2½
(F)	For a sodium there are 2.5×10^{28} free electrons per cubic meter. Calculate the Fermi energy.	2½

3. Attempt any **Five** questions

(i) What are the limitations of Sommerfeld's atomic model?

(ii) What is the principle of Stern-Gerlach experiment?

(iii) What is j-j Coupling?

(iv) State Hund's Rule.

(v) Give any two importance of Hall effect measurement.

(vi) Define Hall effect.

(vii) What is Fermi energy.

(viii) Define Fermi temperature. 1x5

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- V Examination

Subject: Physics

Paper-I (Atomic Physics, Free Electron Theory and Statistical Physics)

Unit-III,IV

Time: 1.5 Hours] [**Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	Obtain Maxwell-Boltzmann distribution of speed for gas molecule and explain the variation of number of molecules per unit speed range with speed of molecule.	5
(B)(i)	Explain the term Micro state and Macro state with the help of example.	3
(ii)	At what temperature will the average speed of molecule of hydrogen gas be double, the average speed of oxygen at 300K?	2

OR

(C)	Define phase space and find volume of unit cell.	2½
(D)	Derive the expression for Thermodynamic Probability in M. B. statistics.	2½
(E)	Explain the condition of most probable distribution in Maxwell-Boltzmann Statistics.	2½
(F)	Calculate the most probable,average and root mean square speed of nitrogen molecule at 27 degree celcius .(Mass of Nitrogen molecule $= 8 * 10^{-3}$kg/mol and gas constant R= 8.31J/mol.K.)	2½

EITHER

2.(A)	By using Bose-Einstien energy distribution law, derive plank's law of black body radiation.	5
(B)(i)	Derive the expression for probability distribution of particle in Fermi-Dirac Statistics.	3
(ii)	Find the temperature at which Fermi energy of free electron in copper is zero. (Fermi energy of copper = 7.03eV.)	2

OR

(C)	Derive the expression for Fermi energy for free electrons in a metal.	2½
(D)	Distinguish between B. E. Statistics and F.D. statistics.	2½
(E)	Derive the expression for Thermodynamic Probability in B. E. statistics.	2½
(F)	A system consist of 5 particles arranged in two compartments. The first compartment is divided into 6 cells and second into 8 cells.The cells are off equal size .calculate the number of micro states in the macro state (2,3), if the particle obey F. D. statistics.	2½

3. Attempt any **Five** questions

(i) What are the limitations of M. B. Statistics?
(ii) What is Fermi energy?
(iii) Define the term Thermodynamic Probability.
(iv) State Principal of equal priory probability.
(v) Give any two limitations of F. D. statistics.
(vi) Define Momentum space.
(vii) What is Fermi Temperature?
(viii) Define Fermi temperature. 1x5

Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Science (B.Sc.) SEM- V Examination
Subject: Physics
Paper-II (Quantum Mechanics)
Unit-I, II

Time: 1.5 Hours] [**Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	State and explain Compton Effect. Find expression for modified wavelength?	5
(B)(i)	Explain the duel nature of particle with the help of EM wave?	3
(ii)	If the scattered X-rays are detected at 30◦ relative to the incident X-rays, determine the Compton shift at this angle, the energy of the scattered X-ray, and the energy of the recoiling electron.	2

OR

(C)	Deduce the equation for wavelength of Davisson's and Germer experiment?	2.5
(D)	Explain De broglie Hypothesis and find it's wavelength?	2.5
(E)	Deduce the equation for Thought Experiment	2.5
(F)	The de Broglie wavelength of the electron is 0.26 nm. Electron particle has the mass of 9.109 ×10−31 kg. Calculate the magnitude of the velocity of this electron. $= 8 * 10^{-3}$	2.5

EITHER

2.(A)	Derive the expression for Time independent Schrodinger's equation	3
(B)(i)	Deduce the equation for Energy of a particle in one dimensional Potential well.	5
(ii)	Find the probability of wave function confined in a Potential well	2

OR

(C)	Deduce the equation for Time dependent Schrodinger's equation	2.5
(D)	Deduce the 3D Time dependent Schrodinger's equation	2.5
(E)	Derive the expression for Normalised wave function.	2.5
(F)	What is Hamiltonian Operator.what is role of this operator in schrodinger's equation?	2.5
3.	Attempt any Five questions	1x5
(i)	What are the limitations of a wave function?	
(ii)	What is EM wave?	
(iii)	Define the term group velocity	
(iv)	State Probability Density	
(v)	Give applications of De broglie wave	
(vi)	Explain why the particle has an imaginary wave function?	
(vii)	What is thought experimental statement?	
(viii)	Define wave packet.	

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- V Examination

Subject: Physics

Paper-II (Quantum mechanics, Nanomaterials and Nanotechnology)

Unit-III, IV

Time: 1.5 Hours] **[Maximum Marks:** 25

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A)	What are nanomaterials? Explain the size dependent and physical properties of nanomaterials.	5
(B)(i)	What are Fullerenes? State properties of Fullerenes.	3
(ii)	The block has a surface are of 6 m^2 and volume of 2 m^3. Calculate the surface to volume ratio of the system?	2

OR

(C)	State the difference between nanomaterials and bulk materials.	2½
(D)	What are quantum dots? Write their applications.	2½
(E)	Explain the Top-Down approach for the manufacturing of nanomaterials.	2½
(F)	Find out the surface to volume ration of a quantum dots of radius 3 nm?	2½

EITHER

2.(A)	Explain wet-chemical method? Write the reactions involved in this method.	5
(B)(i)	Explain the application of nanomaterials in the medical field.	3
(ii)	Calculate the crystallite sized of nanocrystalite CuO at an angle 38.2° with FWHM of 0.4°? (Given 1°= Π/180 rad)	2

OR

(C)	Draw the neat labeled diagram of TEM?	2½
(D)	What is the role of electron gun and electron lenses in SEM?	2½
(E)	Explain the hydrolysis and condensation reaction in sol-gel technique?	2½
(F)	How nanotechnology is useful in domestic appliances?	2½

3. Attempt any **Five** questions

(i) What is Nanotechnology?

(ii) What are the types of nanomaterials?

(iii) What are the approaches of nanomaterial synthesis?

(iv) What is graphene?

(v) What are the different methods of synthesis of nanoparticles?

(vi) What are characterization techniques to characterize nanomaterials ?

(vii) Write the Debye-Scherer's formula?

(viii) Write the important applications of nanomaterials? 1x5

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V PSM

T-1

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	VRUSHALI KHUMDEO SHAHARE	9307516332	Vrushalishahare@gmail.com						
2.	Shashank Pandey	9998644684	pandeyshashank952						
3.	Pawan Vishwakarma	7058408869	pawanvishwakarma69448@gmail.com						
4.	Swanandi N dhazne								
5.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial Science College, Nagpur-440033

Name & Signature of Head of the Department
HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial Science College, Nagpur

Dr. Akhilesh Peshwe
Principal
PRINCIPAL
Dharampeth M. P. Deo Memorial Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V PCM

T-7,8,9,10

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1	ADITYA MISHRA								
2	AMAN VINOD TRIPATHI	9372188228	amantripathi2409@gmail.com	Aman	Aman	Aman	Aman		
3	ANANYA RAVINDRA MOTGHARE	7219218955	ananyamotghare1802@gmail.com	Ananya	Ananya	Ananya	Ananya		
4	APURVA SHALIGRAM VERULKAR	9623613911	apurva.verulkar@gmail.com	Apurva	Apurva	Apurva	Apurva		
5	ASHMIT VILAS JUWAR	8080238161	ashmitjuwar@gmail.com		Ashmit				
6	ATHARVA VINODRAO INGOLE								
7	AYAZ MABUD SHEIKH								
8	BHUMIKA VILAS THAKRE								

9	DHAMMAPRITI RAJENDRA LALE	9975037356	dhammapritiraj@gmail.com						
10	DINESH INDRAJEET PARTETI	9623389676	Parteti dinesh51@gmail.com						
11	DIVYA KAILASH HANOTE	8605422901	divyahanote0406@gmail.com						
12	GAURAV PRAMOD LANDGE								
13	JASRAJ DEVILAL PALIWAL	9370820325	jasrajpaliwal417@gmail.com						
14	KAJAL PURUSHOTTAM NIGHOT	9373250629	kajunighot2000@gmail.com						
15	KAJAL TILAKDHARI PRASAD								
16	KARTIK MANGESH SHELOTKAR								
17	KAVITA SUNIL MISHRA								
18	KHUSHI NARENDRA SURYAWANSHI								
19	MANSI ASHOK BADOLE								
20	MANSI SHAM FATING								
21	MAYUR DHANRAJ GHODAM								
22	MITHILESH ANIL PRASAD								

23	NIDHI KISHOR MISAR								
24	PRACHIT RAJESH KOTPALLIWAR	7498102097	prachitkotpalliwar@gmail.com						
25	PRADUMNA AKSHAYBAR SINGH								
26	PRATIK GAHUKAR	7796280021	pratikgahukar892@gmail.com						
27	PRERNA SHAILENDRA PATIL								
28	RITIK MANOJ VARMA	9356744234	ritikv929@gmail.com						
29	RIYA VIJAY PANDIT								
30	ROHIT SURDAS WANJARI								
31	RUCHIKA NARENDRA PATLE	8669335907	ruchikapatle4@gmail.com						
32	RUSHALI DILIP BHOSKAR	9579485537	bhoskarrushali@gmail.com						
33	RUTIK VIJAY GAJBHIYE								
34	SAKSHI MOHAN INGLE	9067817694	inglesakshi703@gmail.com						
35	SATYAM SATYADEV MISHRA								
36	SEJAL RAJIV LAKHANPAL	9028851568	sejaldlakhanpal@gmail.com						
37	SHASHANK PANDEY	9998646634	pandeyshashank952@gmail.com						

38	SHITAL RAMAJI KELZARKAR	9573385723	shitul2020kk@gmail.com						
39	SHREYASH BHOJRAJ CHATTE								
40	SHRUTI NIRANJAN RAMTEKE								
41	SHUBHAM SINGH	9370244760	singh@gm						
42	SWANANDI NARAYANRAO DHARNE	7420880982	Swanandidhazne31@gmail.com.		SDhazne	SDhazne			
43	TEJASWINI KRISHNAJI THAKARE								
44	TUSHAR YAMRAJ ATKARI								
45	VAISHU SAHADEO NIMJE	9579993869	vaishuninje2009@gmail.com						
46	VATAN SANTOSH SONWANE								
47	WASUDEO KISAN LAKHMAPURE								
48	YASH RAJESH BORKAR								

Name & Signature of Teacher In-Charge

Prof. Pitamber Hustone
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-V PME

T-3

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	AASMIN ABDULKHALIK SHEIKH	8668323568	aasmin5029@gmail.com	ASheikh	ASheikh	ASheikh	ASheikh		
2.	CHETAN UMASHANKAR BOPCHE	9172484628	chetanbopche270@gmail.com	CBopche	CBopche	CBopche	CBopche		
3.	JANVI ASHOK KOSARKAR	7888116270	janvikosarkar@gmail.com	Janvi	Janvi	Janvi	Janvi		
4.	PAWANKUMAR SHIVKUMAR VISHWAKARMA	7058408869	pawanv@gmail.com	Pavan	Pavan	Pavan			
5.	PRAJWAL MULCHAND BHADE								
6.	PRAKHAR RAJESH BURADKAR								
7.	PRIYANKA SHILANATH SHAH	7385197365	PS33473 11@gmail.com	Priyanka	Priyanka	Priyanka	Priyanka		
8.	Minal. U. Mahalle	9921941520	minalmahalle45@gmail	M. Mahalle	M. Mahalle	M. Mahalle	M. Mahalle		

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-5

PMCom

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	ADITI ALESHWAR LUTE	7820812303	aditilute 191@gmail.com	Aditi	Aditi	Aditi	Aditi		
2.	ADITYAKUMAR SHYAMALKUMAR SHUKLA	9518994638	adityashukla0025@gmail.com	Ashukla	Ashukla	Ashukla	Ashukla		
3.	ADITYAKUMAR SURYBANSH SINGH	7350543301	adityasingh288180@gmail.com	A.K.S	A.K.S	A.K.S	A.K.S		
4.	AKSHAY PREMDAS KHANDARE								
5.	ANKUR SANJEEV KHURPADI	7249884620	Khurpadi ankur@gmail.com	Ankur	Ankur	Ankur	Ankur		
6.	ANUJ HARIPRASAD MISHRA	8103656208	anujmishra251202@gmail.com	Anuj Mi	Anuj Mi	Anuj Mi	Anuj Mi		
7.	AYUSH RAJENDRA BORIKAR								
8.	BHAGYASHREE THAKREY	8766925275	thakrebhagyashree2003@gmail.com	Thakare	Thakare	Thakare	Thakare		
9.	DAMINI BALRAM KATRE	8208255685	damini katre91@gmail.com	Damini	Damini	Damini	Damini		
10.	HITESH GANESH KAWARE	7058427112	hiteshkaware73@gmail.com	Hkaware	Hkaware	Hkaware	Hkaware		

11.	HRITIK CHANDRAMA MISHRA	9067414575	Hritikmishra1010@gmail.com						
12.	KHUSHBU GANESH WALMIK	8983700782	Khushboowalmik14@gmail.com						
13.	KUNAL SANJAY DIGRASE	8010274303	kunaldigrase7776@gmail.com						
14.	NITIN AJAY KUSHWAHA	9693429005	nitinkushwaha4706@gmail.com						
15.	NUTAN PALASRAM SURJUSE	8805570279	nutansurjuse2003@gmail.com						
16.	OMKUMAR DEVLAL DEVANGAN	9763624588	ommamaji12@gmail.com						
17.	PRITESH SURENDRA NARTAM	7498039428	pajunartam@gmail.com						
20.	RITUL KRISHNA BISEN	7028810840	ritulbisen06@gmail.com						
21	SANCHITA SUNIL PATIL	7218079074	sanchitapatil2003@gmail.com						
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23	YAMINI ACHAL MISHRA	8623040668	yaminimish292239@gmail.com						
24	YASH RAMESHWAR JAISWAL								
25									
26									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur

DHARAMPETH M P DEO MEMORIAL SCIENCE COLLEGE NAGPUR

DEPARTMENT OF PHYSICS

B.Sc SEM 5 -Practical Examination

Time:

Date: 19th to 21st December 2023

Sr. No.	Roll no.	Name of Students	T1	T2	IA1	IA2	Total	Practical	Total	Pass/Fail
1	176695	ADITYA MISHRA	31	27	8	8	74	28	102	Pass
2	176703	AMAN VINOD TRIPATHI	30	32	10	10	82	29	111	Pass
3	176587	ANANYA RAVINDRA MOTGHARE	19	33	10	10	72	28	100	Pass
4	176591	APURVA SHALIGRAM VERULKAR	29	35	9	09	82	28	110	Pass
5	176709	ASHMIT VILAS JUWAR	18	02	8	8	36	27	63	Fail
6	176711	ATHARVA VINODRAO INGOLE	25	20	8	8	61	28	89	Pass
7	176713	AYAZ MABUD SHEIKH	12	3	8	8	31	28	59	Fail
8	176596	BHUMIKA VILAS THAKRE	12	21	8	8	49	28	77	Pass
9	176600	DHAMMAPRITI RAJENDRA LALE	15	11	8	8	42	29	71	Fail
10	176R721	DINESH INDRAJEET PARTETI	32	25	8	8	73	25	98	Pass
11	176602	DIVYA KAILASH HANOTE	29	31	10	10	80	29	109	Pass
12	176724	GAURAV PRAMOD LANDGE	27	20	8	8	63	27	90	Pass
13	176731	JASRAJ DEVILAL PALIWAL	21	19	8	9	57	29	86	Pass
14	176610	KAJAL PURUSHOTTAM NIGHOT	20	26	9	9	64	28	92	Pass
15	176611	KAJAL TILAKDHARI PRASAD	13	20	8	8	59	28	87	Pass
16	176R733	KARTIK MANGESH SHELOTKAR	10	10	8	8	36	25	61	Fail
17	176614	KAVITA SUNIL MISHRA	22	20	8	8	58	28	86	Pass
18	176619	KHUSHI NARENDRA SURYAWANSHI	7	23	8	8	46+2	30	78	Pass
19	17620	KOMAL PATLE	18	14	7	7	46	28	74	Pass
20	176621	MANSI ASHOK BADOLE	20	21	8	8	57	28	85	Pass
21	176625	MANSI SHAM FATING	04	14	8	8	34	28	62	Fail
22	176R736	MAYUR DHANRAJ GHODAM	14	15	8	8	45	26	71	Fail
23	176R737	MITHILESH KUMAR ANIL PRASAD	18	16	8	8	50	26	76	Pass
24	176R629	NIDHI KISHOR MISAR	18	17	8	8	51	28	79	Pass
25	176745	PRACHIT RAJESH KOTPALLIWAR	36	30	9	8	83	30	113	Pass
26	176746	PRADUMNA AKSHAYBAR SINGH	16	18	8	8	50	28	78	Pass

Internal Examiner

DHARAMPETH M P DEO MEMORIAL SCIENCE COLLEGE NAGPUR

DEPARTMENT OF PHYSICS

B.Sc SEM 5 -Practical Examination

Time:

Sr. No.	Roll no.	Name of Students	T_1	T_2	IA1	IA2	Total	Prat	Total	Pass/Fail
27	176751	PRATIK GAHUKAR	20	30	9	10	69	30	99	Pass
28	176638	PRERNA SHAILENDRA PATIL	41	33	8	8	90	27	117	Pass
29	176755	RITIK MANOJ VARMA	18	26	9	10	63	30	93	Pass
30	18R5457	RIYA VIJAY PANDIT	8	18	7	8	41	26	67	Fail
31	R176757	ROHIT SURDAS WANJARI	07	10	8	8	33	26	59	Fail
32	176642	RUCHIKA NARENDRA PATLE	22	22	8	8	60	28	88	Pass
33	176643	RUSHALI DILIP BHOSKAR	33	43	10	9	95	30	125	Pass
34	176760	RUTIK VIJAY GAJBHIYE	27	23	8	8	66	26	92	Pass
35	176644	SAKSHI MOHAN INGLE	18	28	8	8	62	30	92	Pass
36	17R766	SATYAM SATYADEV MISHRA	19	18	8	8	53	26	79	Pass
37	176650	SEJAL RAJIV LAKHANPAL	37	31	8	10	86	30	116	Pass
38	176769	SHASHANK GYANENDRA PANDEY	17	18	8	8	51	28	79	Pass
39	176653	SHITAL RAMAJI KELZARKAR	25	25	9	9	68	29	97	Pass
40	176R655	SHRADDHA RAJE	11	18	7	8	44	26	70	Fail
41	17R6770	~~SHREYASH BHOJRAJ CHATTE~~	20	20	8	8	56	26	82	Pass
42	176R661	SHRUTI NIRANJAN RAMTEKE	9	15	8	8	40	26	66	Fail
43	176772	SHUBHAM SINGH	11	17	9	8	45	27	72	Fail
44	176R664	SIMRAN TALMALE	11	13	7	8	39	26	65	Fail
45	176669	SWANANDI NARAYANRAO DHARNE	13	25	8	8	54	26	80	Fail
46	176672	TEJASWINI KRISHNAJI THAKARE	9	10	8	8	35	28	63	Fail
47		TUSHAR YAMRAJ ATKARI (A)								
48	176686	VAISHU SAHADEO NIMJE	12	16	08	09	45	29	74	Fail
49	17R*6780	VATAN SANTOSH SONWANE	AA	AA	8	8	16	25	41	Fail
50	17R6782	WASUDEO KISAN LAKHMAPURE	8	21	8	8	45	25	70	Fail
51	17R6783	YASH RAJESH BORKAR	10	15	8	8	41	26	67	Fail

Internal Examiner

DHARAMPETH M P DEO MEMORIAL SCIENCE COLLEGE NAGPUR

DEPARTMENT OF PHYSICS

B.Sc SEM 5 -Practical Examination

Time:

Sr. No.	Roll no.	Name of Students	T1	T2	SA1	SA2	Total	Prack	Total	Pass/Fail
52	176584	ADITI ALESHWAR LUTE	28	33	10	09	80	27	107	Pass
53	176699	ADITYAKUMAR S. SHUKLA	33	34	10	8	85	30	115	Pass
54	R	ADITYAKUMAR SURYBANSH SINGH								
55	176700	AKSHAY PREMDAS KHANDARE	10	18	8	8	44	28	72	Fail
56	176705	ANKUR SANJEEV KHURPADI	26	36	8	9	79	22	106	Pass
57	176707	ANUJ HARIPRASAD MISHRA	34	26	8	8	76	26	102	Pass
58	1767 R15	AYUSH RAJENDRA BORIKAR	15	15	8	8	46	24	70	Fail
59	176595	BHAGYASHREE SANJAY THAKARE	45	98	10	10	113	29	142	Pass
60	176598	DAMINI BALRAM KATRE	33	36	10	09	88	25	113	Pass
61	176729	HITESH GANESH KAWARE	24	18	8	9	59	28	87	Pass
62	176730	HRITIK CHANDRAMA MISHRA	19	18	8	8	53	26	79	Pass
63	176616	KHUSHBU GANESH WALMIK	14	21	10	9	54	27	81	Pass
64	176735	KUNAL SANJAY DIGRASE	18	18	8	9	53	28	81	Pass
65	176741	NITIN AJAY KUSHWAHA	37	30	9	9	85	30	115	Pass
66	176632	NUTAN PALASRAM SURJUSE	28	37	10	10	85	28	113	Pass
67	176742	OMKUMAR DEVLAL DEVANGAN	18	21	9	9	57	28	85	Pass
68	176 R752	PRITESH SURENDRA NARTAM	22	25	8	9	64	28	92	Pass
69	176640	RITUL KRISHNA BISEN	27	34	8	9	78	28	106	Pass
70	176648	SANCHITA SUNIL PATIL	28	39	10	10	87	30	117	Pass
71	176663	SHWETA RANGRAO BEDWAL	15	08	8	9	50	28	78	Pass
72	176691	YAMINI ACHAL MISHRA	14	21	8	9	52	29	81	Pass
73	176780	YASH RAMESHWAR JAISWAL	9	13	8	8	38	AB	38	Fail
74	176583	AASMIN ABDULKHALIK SHEIKH	32	36	10	10	88	29	117	Pass
75	176 R716	CHETAN UMASHANKAR BOPCHE	24	19	8	8	59	27	86	Pass
76	1766R7	JANVI ASHOK KOSARKAR	12	32	8	9	61	27	88	Pass
77	176743	PAWANKUMAR S. VISHWAKARMA	19	18	8	8	53	29	82	Pass
78	176 R747	PRAJWAL MULCHAND BHADE	14	14	8	8	44	26	70	Fail
79	176749	PRAKHAR RAJESH BURADKAR	3	16	8	8	35	AB	35	Fail
80	R	PRIYANKA SHILANATH SHAH								
81	176626	MINAL MAHALLE	17	19	10	9	55	28	83	Pass
82	176690	VRUSHALI KHUMDEO SHAHARE	20	26	08	08	62	28	90	Pass
83		~~SHASHANK PANDEY~~								
84		~~PAWAN VISHWAKARMA~~								
85	176710	ATHARVA PANDURANG UMATE	15	11	7	8	41	AB	41	Fail
86	176744	PIYUSH D. DAFARE	00	18	07	08	33	AB	33	Fail

AB

Internal Examiner

Due: 81
Fail: 25
Pass: 56
% : 69.1

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem.-I **2023-24** **Paper-I (UNIT-I & II)**

TEST-I

Q. 1. a) Structure of T_4Bacteriophase

b) Ultrastructure of TMV

OR

c) Structure of Mycoplasma

d) Reproduction in Bacteria

e) Multiplication of T_4Bacteriophase

f) Economic importance of viruses

Q. 2. a) Classification of Algae (Fritsch, 1954)

b) Ultrastructure of Cyanobacteria cell

OR

c) Economic importance of Cyanobacteria

d) Structure of Heterocyst

e) Economic Importance of Algae

f) Reproduction in *Nostoc*

Q. 3. a) Capsomere

b) Mesosome

c) PPLO

d) Mucilage

e) Flagella

f) Akinete

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem.-I **2023-24** **Paper-II (UNIT-I &II)**

Test-2

Q. 1. a) Aeciospores and Pycniospores in *Puccinia*

b) Sexual Reproduction in Mucor

OR

c) Asexual reproduction in *Albugo*

d) Asexual Reproduction in *Cercospora*

e) Asexual reproduction in *Mucor*

f) Economic importance of Fungi

Q. 2. a) Leaf curl of papaya

b) Reproduction in Lichen

OR

c) Internal structure of lichen

d)Red rot of sugarcane

e) Economic Importance of Lichen

f) Citrus canker

Q. 3. a) White rust

b) Dikaryotization

c) Tikka disease

d) Fruticose lichen

e) Crustose lichen

f) Foliose lichen

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem.-I **2023-24** **Paper-I (UNIT-III & IV)**

Test-3

Q. 1. a) Sexual reproduction in *Batrachospermum*

b) Sex organs in *Chara*

OR

c) Plurilocular sporangia in *Ectocarpus*

d) Sexual Reproduction in *Vaucheria*

e) Post fertilization changes in *Chara*

f) Thallus structure of *Batrachospermum*

Q. 2. a) Scope and commercial production of biofertilizers

b) Rhizobium as biofertilizer

OR

c) Characteristics of Azotobacter

d) Commercial production of Azolla

e) Commercial production of Azotobacter

f) Importance of biofertilizer

Q. 3. a) Secondary protonema

b) Amylum stars

c) Gongrosira stage

d) PSB

e) PSM

f) Liquid biofertilizer

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem.-I **2023-24** **Paper-II (UNIT-III &IV)**

Test-4

Q. 1. a) L. S. Sporophyte of *Funaria*

b) L. S. Sporophyte of *Anthoceros*

OR

c) V. S. of *Anthoceros* thallus

d) V. S. of *Marchantia* thallus (Diagram only)

e) Sporophyte of *Marchantia*

f) Economic Importance of Bryophytes

Q. 2. a) Nutritive and Edible Value of Mushroom

b) Tools of Mushroom Cultivation

OR

c) *Agaricus bisporus*

d) *Volveriella volvacea*

e) Poisonous Mushroom

f) Production of spawn

Q. 3. a) Gemma cup

b) Pseudoelaters

c) Autoecious

d) Compost

e) Casing

f) Pinning

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem.-III **2023-24** **Paper-I (UNIT-I & II)**

TEST-I

Q. 1. a) Benettitalean theory

b) Indented and bracketed keys

OR

c) Cytotaxonomy

d) *Sahanianthus*

e) Principle of priority

f) Rank and ending of taxa

Q. 2. a) Outline Classification of Bentham and Hookers system with merits & demerits

b) Floral characteristics of Asteraceae

OR

c) Floral formula and floral diagram of Asclepiadaceae

d) Floral characteristics of Papilionaceae

e) Floral characteristics of Brassicaceae

f) Economic importance of poaceae

Q. 3. a) Flora

b) *Enigmocarpon*

c) Flavenoid

d) Monadelphous

e) Epicalyx

f) Siliqua

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem-III **2023-24** **Paper-II (UNIT-I & II)**

Test-2

Q. 1. a) Structure and functions of cambium

b) Structure and Functions of Xylem

OR

c) Classification of meristems based on Position

d) Histogen theory

e) Tunica corpus theory

f) Newman's theory

Q. 2. a) Anomolous secondary growth in *Bignonia*

b) Anomolous secondary growth in *Dracaena*

OR

c) T. S. Sunflower Stem (diagram only)

d) T. S. Maize Root (diagram only)

e) T. S. Sunflower Root (diagram only)

f) T. S. Maize Stem (diagram only)

Q. 3. a) Collenchyma

b) Parenchyma

c) interfascicular Cambium

d) Radial VB

e) Bicollateral VB

f) Concentric VB

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem.-III **2023-24** **Paper-I (UNIT-III & IV)**

Test-3

Q. 1. a) Types of pollination

b) Development of Polygonum type of embryo sac

OR

c) T. S. of Mature anther (Diagram only)

d) Structure of Anatropous ovule (Diagram only)

e) Structure of dicot embryo

f) Microsporogenesis

Q. 2. a) Factors required for growing house plants

b) Landscaping

OR

c) *Begonia*

d) *Vanda*

e) *Crysalidocarpus*

f) *Adiantum*

Q. 3. a) Campylotropous ovule

b) Double fertilization

c) Triple fusion

d) *Nephrolepis*

e) Pruning

f) Dendrobium

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem-III **2023-24** **Paper-II (UNIT-III & IV)**

Test-4

Q. 1. a) V. S. *Nerium* leaf

b) Senescence

OR

c) Abscission

d) Periderm

e) V. S. Maize leaf (Diagram only)

f) Heart wood and sap wood

Q. 2. a) Water requirement and irrigation in Horticulture

b) Grafting methods in Mango

OR

c) T-Budding

d) Technique of Bonsai Preparation

e) Propagation method of Lily

f) Propagation of Guava

Q. 3. a) Tyloses

b) Commercial cork

c) Growth rings

d) Layering

e) Suckers

f) Micro-budding

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem-V **2023-24** **Paper-I (UNIT-I & II)**

TEST-I

Q. 1. a) Mechanism of Stomatal Movement

b) Active and passive absorption of minerals

OR

c) Osmosis

d) Cohesion-adhesion theory

e) Munch hypothesis

f) Diffusion

Q. 2. a) Calvin cycle

b) Kreb's Cycle

OR

c) HSK pathway

d) Glycolysis

e) Non-cyclic photophosphorylation

f) Oxidative decarboxylation

Q. 3. a) Plasmolysis

b) Imbibition

c) DPD

d) Oxidative decarboxylation

e) RQ

f) ETS

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem-V **2023-24** **Paper-II (UNIT-I & II)**

Test-2

Q. 1. a) Interaction between plants and animals

b) Branches of Ecology

OR

c) Significance of Ecology

d) Gaseous composition of atmosphere

e) Properties of soil

f) Soil profile

Q. 2. a) Ecological pyramids

b) Biotic component of ecosystem

OR

c) Raunkier's biological spectrum

d) Ecotypes

e) Characteristics and importance of growth curve

f) Food chain

Q. 3. a) Pedogenesis

b) Sciophytes

c) Epiphytes

d) Food web

e) Density

f) Ecads

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem-V **2023-24** **Paper-I (UNIT-III & IV)**

Test-3

Q. 1. a) Tropic movements

b) Mechanism of biological nitrogen fixation

OR

c) Seismonastic movement

d) Circadian rhythm and biological clock

e) Photoperiodic induction

f) Florigen hormone

Q. 2. a) Role and deficiency symptoms of Macronutrients

b) Method of hydroponic farming in Tomato & Cucumber

OR

c) Advantages and disadvantages of hydroponics

d) role and deficiency of Manganese

e) role and deficiency of Boron

f) Nutrient composition for hydroponics

Q. 3. a) Nitrogenase

b) Short day plants

c) Day neutral plants

d) Zinc

e) Deep water culture

f) Deficiency of Iron

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Class: B. Sc. Sem-V **2023-24** **Paper-II (UNIT-III & IV)**

Test-4

Q. 1. a) Morphological and anatomical adaptations of xerophytes

b) Xerosere type of succession

OR

c) Anatomical adaptations in *Hydrilla*

d) Nitrogen cycle

e) Phosphorous cycle

f) Reed-swamp stage

Q. 2. a) Method of recycling of biodegradable waste of kitchen

b) Preparation of Vermicompost

OR

c) Green manure

d) Organic fertilizers

e) Effect of organic manure on growth

f) Advantages and disadvantages of organic farming

Q. 3. a) Halophyte

b) Epiphyte

c) Sedge-meadow stage

d) VAM

e) Organic farming

f) Organic manure

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF BOTANY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-11, 12

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Akansha Santosh Tomar	8237507716	akanshatomar2020@gmail.com	A Tomar.	A Tomar.	A Tomar.	A Tomar.		
2.	Anjali Narendra Timma	9420673094	Timmaanjali34@gmail.com	Timma	Timma	Timma	Timma	Timma	
3.	Anjali Rajenraprasad Tiwari	7804023451	at722815@gmail.com	Anjali	Anjali	Anjali	Anjali	Anjali	
4.	Arish Shabbir Sheikh			AA	AA	AA	AA		
5.	Arti Ganesh Katre	9359582324	laxmikatre2000@gmail.com	Arti	Arti	Arti	Arti		
6.	Ayush Suresh Dhurve	7276717039	ayushdhurve03@gmail.com	AA	Ayush	AA	Ayush		
7.	Bhumika Dewadas Kurre	7517630283	BhumiKakurre71@gmail.com	BKurre	BKurre	BKurre	BKurre		
8.	Ekta Dipak Chaudhari	9022804173	chaudhariekta7@gmail.com	@chaudhari	@chaudhari	@chaudhari	@chaudhari	@chaudhari	
9.	Jamuna Soma Pallo	9405367042	Jamupallo@gmail.com	Pallo	Pallo	Pallo	Pallo	Pallo	
10.	Kallyani Chinduji Mojankar	7796048534	KallyaniMojankar08@gmail.com	K.C.mojankar	K.C.mojankar	K.C.mojankar	K.C.mojankar		

11.	Kalyani Balram Katre	8459277408	kaukalyani@23gmail.com	Kalyani	Kalyani	Kalyani	Kalyani	Kalyani	
12.	Khushboo R. Rahangdale	9322336852	khushboorahangdale6@gmail.com	Khushee	Khushee	Khushee	Khushee	Khushee	
13.	Khushi Surajbhan Tijare	9209295043	khushitijare2020@gmail.com	Tijare	Tijare	Tijare	Tijare	Tijare	
14.	Lukeshwari Maroti Shendre	7558321257	marotishendre728@gmail.com	Lukeshwari	Lukeshwari	Lukeshwari	Lukeshwari	Lukeshwari	
15.	Mayuri Maroti Tumdam	9309579974	mayuTumdam21@gmail.com	Tumdam	Tumdam	Tumdam	Tumdam		
16.	Minal Gajanan Verulkar	9921602434	minalverulkar28@gmail.com	Minal	Minal	Minal	Minal	Minal	
17.	Nisha Dhansingh Bavankar			AA	AA	AA	AA		
18.	Piyush Premraj Dewase	7972600561	Piyushdewase@gmail.com	P. Dewase	P. Dewase	P. Dewase	P. Dewase	P. Dewase	
19.	Purva Ranjitsingh Rajput	7498614295	Purvarajput04@gmail.com	Rajput	Rajput	Rajput	Rajput		
20.	Riya Yogesh Agashe	9175017976	riyaagashe@gmail.come	Agashe	Agashe	Agashe	Agashe	Agashe	
21.	Rohan Surjitkumar Tiwari	7841815908	rt155865@gmail.com	Rohan	Rohan	Rohan	AA		
22.	Sanket Vijay Choudhari	7798413895	sanketchoudhari779@gmail.com	S.V. choudhari	S.V. choudhari	S.V. choudhari	S.V. choudhari		
23.	Suhani Onkar Bhagat	8999321164	Bhagatsuhani@gmail.com	Bhagat	Bhagat	Bhagat	Bhagat	Bhagat	
24.	Suhani Ravindra Raut	7499545381	SuhaniRaut968@gmail.com	AA	Raut	AA	Raut	Raut	
25.	Tanuj Ramesh Shendre	7822898251	tanujshendre640@gmail.com	T.R. Shendre	T.R. Shendre	T.R. Shendre	T.R. Shendre	T.R. Shendre	
26.	Trusha Sharad More	8087293904	Trushamore816@gmail.com	More	More	More	More	More	

27.	Vaishnavi Mahesh Kursange	7038029978	Kursangevaishnavi@gmail.com ~~Chavanvaishnavi6~~						
28.	Vaishnavi Rajesh Chavan	9960373025	chavanvaishnavi6354@gmail.com				AA		
29.	Vedant Omprakash Manmode	9309025511	Vedantmanmode1@gmail.com						
30.	Yutihika Dinesh Shevate			AA	AA	AA	AA		
31.	Namrata Rajesh Kundlwade	8080305814	namrata@gmail.com						
32.									
33.									
34.									
35.									

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF BOTANY
DHARAMPETH M.P. DEO MEMORIAL
SCIENCE COLLEGE, NAGPUR.

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Dharampeth M.P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Ayushi Prakash Chaudhary	7756017460	ayshichaudhary@gmail.com	Ayushi	Ayushi	Ayushi	Ayushi	Ayushi	
2.	Bhavesh Suresh Urade	9420892856	bhaveshurade01@gmail.com						
3.	Dipanshu Deepak Golait			AA	AA	AA	AA		
4.	Divya Homchand Sahare	7498313546	saharedivya86@gmail.com	Divya	Divya	Divya	Divya	Divya	
5.	Divyansh Asok Raut	7058194[illegible]	divyanshraut921@gmail.com						
6.	Harsh Ganesh Kale	9356482390	HarshKale638@gmail.com						
7.	Karuna K. Mehndole	9302710146	mehndolekaruna@	Karuna	Karuna	Karuna	Karuna	Karuna	
8.	Najia S. Sattar Bairam	9921819426	najiyabairam@gmail.com	Najiya	Najiya	Najiya	Najiya	Najiya	
9.	Pallavi Yogiraj Khawashi	8767544975	Pallavikhawashi04@gmail.com	Pallavi	Pallavi	Pallavi	Pallavi		
10.	Pooja Manik Mashakhetri	8669174258	poojamashakhetri@gmail.com	Pmashakhetri	Pmashakhetri	Pmashakhetri	Pmashakhetri	Pmashakhetri	
11.	Prachi Ravindra Gudadhe	9322913742	Prachigudadhe21@gmail.com						
12.	Pragya Alok Rai	9421776924	Pragyarai@gmail.com	Pragya	Pragya	Pragya	Pragya	Pragya	
13.	Rasika Mahipal Bandhate	9307416296	rasikabandhate@gmail.com	Rasika	Rasika	Rasika	Rasika		
14.	Sakshi Rajesh Singh	9356410815	buggusingh2004@gmail.com	Singh	Singh	Singh	Singh	Singh	
15.	Shivani Vijay Wakulkar	9322397692	shivaniwakulkar18@gmail.com	Shivani	Shivani	Shivani	Shivani		

16.	Shriya Pradip Gahukar	9356946229	shreiyagahukar157gmail.com						
17.	Shruti Vijay Singh	8390451747	sakshibcpa@gmail.com						
18.	Sonal Ambadas Pardhi	9579875047	Jineshwaripardhi@gmail.com						
19.	Sujal Digambar Motghare	9534010997	Motgharesujal242gmail.com						
20.	Vipula Raju Nadekar	9881066887	nadekarvipula@gmail.com						
21.									
22.									
23.									
24.									

Name & Signature of Teacher In-Charge

HEAD
DEPARTMENT OF BOTANY
DHARAMPETH M.P. DEO MEMORIAL
SCIENCE COLLEGE, NAGPUR

Prof. Pitambar Humane
IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF BOTANY
DHARAMPETH M.P. DEO MEMORIAL
SCIENCE COLLEGE, NAGPUR.

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF BOTANY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-11, 12

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Aakansha Kamal Khobragade	7972228707	aakanshakhobragade@7gmail.com	Akansh	Akansh		Akansh		
2.	Aasiyakhatoon Sabir Hussain	9359259741	hussainaasiya1894@gmail.com	Ahussain	Ahussain	Ahussain	Ahussain	Ahussain	
3.	Abhay Puranlal Tembhare	8975363145	abhay230102@gmail.com	Abhay	Abhay	Abhay	Abhay		
4.	Amisha Devraj Arkara	7666559171	Arkaraamisha700@gmail.com	Amisha	Amisha	Amisha	Amisha		
5.	Ashlesha Rajesh Khadgi	7820929579	Ashaleshakhadgi@gmail.com	Ashalesha.k	AA	AA	AA		
6.	Ashwini A. Lanjewar	9683117256	Lanjewarashwini@gmail.com	AA	AA	AA	AA	Ashu	
7.	Ghanashree U. Dhomane	7774900320	dhomaneghanashree@gmail.com	Ghdhomane	Ghdhomane	Ghdhomane	Ghdhomane	Ghdhomane	
8.	Gunjan Ishwar Bhoyar	7666799586	gunjanbhoyar2@gmail.com	Gunjan	Gunjan	AA	Gunjan		
9.	Himanshi J. Kalbande	7776030042	Kalbandehimanshi@gmail.com	Hkalbande	Hkalbande	Hkalbande	Hkalbande		
10.	Kalyani R. Sindram			AA	AA	Ksindram	Ksindram		
11.	Khushi Shashikant Bharti			AA	AA	AA	AA		
12.	Lucky A. Viswakarma	9579660186	lvishwakarma239@gmail.com	Lvishwakarma	Lvishwakarma	Lvishwakarma	Lvishwakarma	Lvishwakarma	
13.	Manthan Mukesh Todase	8080870930	manthantodase@gmail.com	Todase	AA	Todase	AA		
14.	Pranjali Liladhar Meshram	7888080054	pranjalimeshram85@gmail.com	P.L. Meshram	P.L. Meshram	P.L. Meshram	P.L. Meshram		
15.	Priya Bhagwan Sharma	8010764549	priyasharma190120@gmail.com	Sharma	Sharma	Sharma	Sharma	Sharma	

16.	Punesh Bhagatram Darro			AA	AA	AA	AA	AA	
17.	Rashi R. Satpute	9145486983	rashisatpute77@gmail.com	Andrs	Andrs.	Andrs.	Andrs.	Andrs	
18.	Riya Rajkumar Rajbhar	8668619305	riyarajbhar018gmail.com						
19.	Rohan H. Meshram	7499995676	rohanmeshram353@gmail.com	Rmeshram	Rmeshram	Rmeshram	Rmeshram		
20.	Sakshi S. Choudhary	8766852469	Sakshichoudhary111333@gmail.com	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	
21.	Samyak Madhukar Hadke	7020171304	samyakhadke30@gmail.com						
22.	Sanjana Suresh Tabhane	9699186571	tabhanesanjana@gmail.com	Sanju	Sanju	Sanju	Sanju	Sanju	
23.	Sunaina Premlal Chichonde	7530970132	Sunainachichonde123@gmail.com	Sunaina	Sunaina	Sunaina	Sunaina	Sunaina	
24.									
25.									
26.									
27.									
28.									
29.									
30.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF BOTANY
DHARAMPETH M.P. DEO MEMORIAL
SCIENCE COLLEGE, NAGPUR.

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF BOTANY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Anjali Rajeshwar Thakre	7066554821	thakreanju381@gmail.com	Anjali	Anjali	Anjali	Anjali		
2.	Anshul Yuvraj Kirnapure	9284067169	anshulkirnapure650@gmail	Anshul	Anshul	Anshul	Anshul		
3.	Anvay B. Borkar	9168538614	anvayborkar19@gmail.com	Anvay	Anvay	Anvay	Anvay		
4.	Aparna Gajanan Mohare	7020649887	aparnamohare23@gmail.com	Aparna	Aparna	Aparna	Aparna		
5.	Apeksha D. Kotangale	7559455794	apekshakotangale26@gmail.com	Akotangale	Akotangale	Akotangale	Akotangale	Akotangale	
6.	Arya Pritam Dhoke	9011681628	aryanamrata133@gmail.com	AryaDhoke	AA	AryaDhoke	AA		
7.	Komalika S. Choudhari	9322033866	Komalikachaudhari073@gmail.com	Komalika	Komalika	Komalika	Komalika	Komalika	
8.	Nisha V. Pande	8208548605	Nishapande7-10-2005@gmail.com	Nisha	Nisha	Nisha	Nisha		
9.	Nitu Birbahadur Rai	7058638984	nitu11419@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
10.	Pritam Sudhakar Kokode			AA	AA	AA	AA		

11.	Priyanshu Tejrao Raut	9322725233	Priyanshu Raut 56 @ gmail.com						
12.	Ravindra Madhukar Khadse	8007198273	Khadserawindra 892 @ gmail.com						
13.	Vaishnavi Namdeorao Tonge	8421657943	Vaishutonge2004 @ gmail.com						
14.	Vanshita Deorao Vaidya			AA	AA	AA	AA		
15.	Yogita Ramesh Denge	7058437240	yogitadenge@gmail.com						
16.									
17.									
18.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department
HEAD
DEPARTMENT OF BOTANY
DHARAMPETH M.P. DEO MEMORIAL
SCIENCE COLLEGE, NAGPUR.

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF BOTANY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-11, 12

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Abhishek D. Deshbhratar			AA	AA	AA			
2.	Aditya Gajanan Deulkar	9028915776	deulkaraditya2r@gmail.com			AA			
3.	Ankita Manoj Mishra	8421293176	mishraankita4683@gmail	AA		AA			
4.	Ashlesha Umesh Sangole	9503998469	Ashleshasangodc94@			AA			
5.	Asmita Dhanraj Charjan	7387005732	asmitacharjan25@gmail.com	AA		AA			
6.	Ayush Ajay Kadam	8421293176	ankitamishra4683@gm.	AA	AA	AA			
7.	Harshad Vinod Warthi			AA	AA	AA	AA		
8.	Jagruti Ajit Rawat			AA	AA	AA	AA		
9.	Khushabu H. Choudhari	7262074960	khushabuchoudhari38@gmail.com						
10.	Mrunalini S. Ramteke	9146003183	mrunaliramteke0828@gmail.com						
11.	Muskan Rameshwar Yadav	9579492617	muskanyadav12225@gmail.com.	AA		AA			
12.	Nikhil Ramkrushna Raut			AA	AA	AA			
13.	Nikita Shyam Barapatre	7058625053	nachibarapatre05@gmail.com	AA		AA			
14.	Riya Raju Kulmethe			AA	AA	AA			

15.	Sakshi Shankar Jambhule			AA	AA	AA	AA		
16.	Shabir Rabiul Shaikh			AA	AA	AA	AA		
17.	Shikha Jawaharlal Yadav	9569714465	Shikhayadav@gmail.com	S.Yadav	S.Yadav	AA	S.Yadav	S.Yadav	
18.	Shreya Sanghashree Bagade	8669883639	bagdeshreya78@gmail.com	AA	Sbagde	AA	Sbagde		
19.	Shruti Mangesh Pawar			AA	AA	AA	AA		
20.	Shruti Pramod Masram	8308657972	shrutimasram@gmail.com	Shruti	Shruti	AA	Shruti	Shruti	
21.	Subbu Rajnikant Mishra	9860436418	subbumishra0234@gmail.com	AA	AA	AA	AA	Subbu	
22.	Sushma Gangadhar Gurnule	9156238747	sushmagurnule12@gmail.com	AA	AA	AA	AA	Gurnule	
23.	Tanushree Raju Bhagat	9834968808	tanubhagat1227@gmail.com	AA	AA	AA	AA	Bhagat	
24.	Vaishali Sanjay Patle	9322600647	vaishalipatle179@gmail.com	Patle	Patle	AA	Patle	Patle	
25.	Varsha Ramprasanna Tiwari	8408097938	varshatiwari1612@gmail.com	Varsha	Varsha	AA	Varsha	Varsha	
26.	Yashashree Pramod Charde	9764008924	yashashreecharde@gmail.com	Y.C	Y.C	Y.C	Y.C	Y.C	
27.	Yukti Suresh Choudhary	7020953938	yukti.choudhary1502@gmail.com	Yukti	Yukti	Yukti	Yukti		
28.	Devashish Duryodhan Bisen	7767861231	Devashishbisen31@gm	AA	AA	AA			
29.	Dhanshri Bisen			AA	AA	AA	AA		
30.	Nilesh D. Lukke			AA	AA	AA	AA		

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF BOTANY
DHARAMPETH M.P. DEO MEMORIAL
SCIENCE COLLEGE, NAGPUR.

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF BOTANY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Aanchal Santosh Singh	7875537925	Santoshsingh23923@gmail.com	Aanchal Singh	Aanchal Singh	Aanchal Singh	Aanchal Singh		
2.	Afrina Rahim Sheikh	8080083981	afrinasheikh973@gmail.com	Sheikh	Sheikh	Sheikh	Sheikh	Sheikh	
3.	Aniket Vinod Kukde	7709629106	akukeade61@gmail.com	AA	Akukeade	AA	Akukeade		
4.	Anushree G. Chandel	9145631751	anuchandel2001@gmail.com	Achandel	Achandel	Achandel	Achandel	Achandel	
5.	Chirayu Bhagwant Dolas	8010135012	chirayudolas22@gmail.com	CBDolas	CBDolas	CBDolas	CBDolas		
6.	Devesh Sanjay Longadge	9326246453	deveshlongadge@gmail.com	Devesh	Devesh	Devesh	Devesh	Devesh	
7.	Gauri Arun Raut	9767873441	ankuraut2003@gmail.com	G.Raut	G.Raut	G.Raut	G.Raut	G.Raut	
8.	Kalyani Chudaram Shahare	9307046378	shaharekalyani5@gmail.com	KSh	KSh	KSh	KSh	KSh	
9.	Ketaki Ramchandra Kirpal	9112759066	ketakikirpal13@gmail.com	KKirpal	KKirpal	KKirpal	KKirpal	KKirpal	
10.	Nikita Shriram Bhave	7820812749	nikitabhave98@gmail.com	N.S Bhave	N.S Bhave	N.S Bhave	N.S Bhave	N.S Bhave	
11.	Pallavi Chandrabhan Borkar	9373187246	borkarpallavi993@gmail.com	PBK	PBK	PBK	PBK	PBK	
12.	Prachal Manik Meshram	7028735508	prachalmeshram4@gmail.com	Prachal.m	Prachal.m	Prachal.m	Prachal.m	Prachal.m	
13.	Pratiksha Sampat Navghare	8623033760	navgharepratiksha44@gmil.com	P.S.Navghare	P.S.Navghare	P.S.Navghare	P.S.Navghare	P.S.Navghare	
14.	Rushabh M. Chaudhari	7218562335	chaudhariRushabh00@gmail.com	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	

15.	Sagar Shrikant Bawane	9975460974	Sagarbawane637@gmail.com	SSBawane	SSBawane	SSBawane	SSBawane	SSBawane	
16.	Samir Prakash Ghumde	9359236713	Sameerghum2002@gmail.com	SPhumde	AA	SPhumde	SPhumde	SPhumde	
17.	Shital Gopichand Bankar	7758055139	Shitalbankar122@gmail.com	S.G.Bankar	S.G.Bankar	S.G.Bankar	S.G.Bankar	S.G.Bankar	
18.	Shreya Ravindra Deshmukh			AA	AA	AA	AA		
19.	Smruti Mohan Vaidya	8856908764	Smrutivaidya36@gmail.com	Svaidya	Svaidya	Svaidya	Svaidya	Svaidya	
20.	Sudhanshu Ramesh Uikey	7028429173	Shudhanshuikey143@gmail.com	AA	AA	Suikey	Suikey		
21.	Swati Sanjay Longadge	8390516517	Swetilangadge1@gmail.com	Swati	Swati	Swati	Swati	Swati	
22.	Vaibhav Arun Malewar	8767838219	vaibhavmalewar194@gmail.com	V.Malewar	V.Malewar	V.Malewar	V.Malewar	V.Malewar	
23.	Vaishnavi Tarachand Kapse	8983751089	vaishnavikapse06@gmail.com	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	
24.	Vishakha Devidas Baswante	8329639834	VishakhaBaswante@gmail.com	VBaswante	VBaswante	VBaswante	VBaswante	VBaswante	
25.									
26.									
27.									
28.									
29.									
30.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF BOTANY
DHARAMPETH M.P. DEO MEMORIAL
SCIENCE COLLEGE, NAGPUR.

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF BOTANY
Session: 2023-24

B. Sc. Sem.-I Class Test Result

Sr. No.	Name of the Students	Paper-I	Paper-II
1.	HARSH GANESH KALE	6	4
2.	KARUNA KEWALRAMNI MEHNDOLE	12	13
3.	NAJIA SHEIKHNOOR SATTAR BAIRAM	14	02
4.	PALLAVI YOGIRAJ KHAWASHI	04	08
5.	POOJA MANIK MASHAKHETRI	18	19
6.	PRACHI RAVINDRA GUDADHE	16	10
7.	PRAGYA ALOK RAI	20	20
8.	RASIKA MAHIPAL BANDHATE	5	9
9.	SAKSHI RAJESH SINGH	12	6
10.	SHIVANI VIJAY WAKULKAR	4	9
11.	SHRIYA PRADIP GAHUKAR	4	6
12.	SHRUTI VIJAY SINGH	5	5
13.	SONALAMBADASPARDHI	8	12
14.	SUJALDIGAMBARMOTGHARE	10	9
15.	VIPULARAJUNADEKAR	8	7
16.	AYUSHI PRAKASH CHAUDHARY	8	9
17.	DIVYANSH ASOK RAUT	4	7
18.	HARSH GANESH KALE	7	5
19.	KARUNA KEWALRAMNI MEHNDOLE	9	8
20.	DIVYANSH ASOK RAUT	4	7
21.	SANKET VIJAY CHOUDHARI	4	2
22.	TANUJ RAMESH SHENDRE	5	7
23.	ARTI GANESH KATRE	6	5
24.	MINALGAJANANVERULKAR	9	10
25.	ANJALI RAJENRAPRASADTIWARI	7	6
26.	PURVARANJITSINGH RAJPUT	6	9
27.	PIYUSHP REMRAJ DEWASE	1	9
28.	LUKESHWARI MAROTI SHENDRE	8	9
29.	EKTA DIPAK CHAUDHARI	10	11

Sr. No.	Name of the Students	Paper-I	Paper-II
30.	ARISH SHABBIR SHEIKH	12	8
31.	SUHANIRAVINDRARAUT	3	8
32.	AYUSH SURESH DHURVE	12	8
33.	BHUMIKA DEWADAS KURRE	9	3
34.	TRUSHA SHARAD MORE	6	9
35.	VEDANT OMPRAKASH MANMODE	2	3
36.	KALLYANI CHINDUJI MOJANKAR	5	2
37.	KALYANI BALRAM KATRE	1	9
38.	KHUSHBOO RAJENDRA RAHANGDALE	12	18
39.	KHUSHISURAJBHANTIJARE	7	9
40.	NISHA DHANSINGH BAVANKAR	AB	AB
41.	ROHAN SURJITKUMAR TIWARI	4	9
42.	SHRUTI VIJAY SHENDRE	3	8
43.	SUHANIONKARBHAGAT	4	8
44.	VAISHNAVI MAHESH KURSANGE	6	2
45.	VAISHNAVI RAJESH CHAVAN	9	10
46.	YUTIHIKA DINESH SHEVATE	AB	AB
47.	TRUSHASHARAD MORE	12	8
48.	AKANSHA SANTOSH TOMAR	5	9
49.	ANJALI NARENDRA TIMMA	7	5
50.	JAMUNA SOMA PALLO	2	3

Amol Pimpalshende

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Professor & Head
Department of Botany
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF BOTANY
Session 2023-24
B. Sc. Sem.-III Class Test Result

Sr. No.	Name of the Students	Paper-I	Paper-II
1.	AAKANSHA KAMAL KHOBRAGADE	8	10
2.	ANJALI RAJENDRA THAKRE	12	21
3.	AASIYAKHATOON SABIR HUSSAIN	22	21
4.	ABHAY PURANLAL TEMBHARE	20	8
5.	ANSHUL YUVRAJ KIRNAPURE	3	9
6.	KOMALIKA S. CHAUDHARI	23	22
7.	NEETU B. RAI	21	18
8.	AMISHA DEVRAJ ARKARA	5	9
9.	ASHLESHA RAJESH KHADGI	3	AB
10.	ASHWINI ASHOK LANJEWAR	AB	AB
11.	YOGITA RAMESH DENGE	21	20
12.	GHANSHREE UDDHAV DHOMNE	23	15
13.	GUNJAN ISHWAR BHOYAR	12	16
14.	HIMANSHI JITENDRA KALBANDE	4	8
15.	KALYANI RAMKRISHNA SINDRAM	AB	12
16.	VANSHITA D. VAIDYA	AB	AB
17.	KHUSHI SHASHIKANT BHARTI	AB	AB
18.	VAISHNAVI NAMDEORAO TONGE	23	20
19.	LUCKY AKHANDPRATAP VISHWAKARMA	32	30
20.	MANTHAN MUKESH TODASE	2	3
21.	ANVAY BHOJRAJ BORKAR	10	9
22.	NISH V. PANDE	12	7
23.	PRITAM S. KOKODE	AB	AB
24.	PRANJALI LILADHAR MESHRAM	5	7
25.	PRIYA BHAGWAN SHARMA	22	18

Sr. No.	Name of the Students	Paper-I	Paper-II
26.	RASHI RAVINDRA SATPUTE	12	17
27.	PUNESH B. DARRO	AB	AB
28.	RIYA RAJKUMAR RAJBHAR	11	8
29.	ROHAN HIRAMAN MESHRAM	12	15
30.	SAKSHI SURESH CHAUDHARY	13	9
31.	SAMYAK M. HADKE	5	8
32.	SANJANA SURESH TABHANE	6	9
33.	APARNA GAJANAN MOHARE	4	10
34.	APEKSHA DIGAMBAR KOTANGALE	10	11
35.	ARYA PRITAM DHOKE	18	19
36.	SUNAINA PREMLAL CHICHONDE	16	17
37.	RAVINDRA MADHUKAR KHADSE	12	14
38.	PRIYANSHU T. RAUT	12	10

Amol Pimpalshende

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Professor & Head
Department of Botany
Dharampeth M. P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF BOTANY
Session: 2023-24
B. Sc. Sem-V Class Test Result

Sr. No.	Name of the Students	Paper-I	Paper-II
1.	ADITYA GAJANAN DEULKAR	AB	4
2.	ANKITA MANOJ MISHRA	3	5
3.	ASHLESHA UMESH SANGOLE	6	3
4.	ASMITA DHANRAJ CHARJAN	5	4
5.	AYUSH AJAY KADAM	AB	6
6.	KETAKI RAMCHANDRA KIRPAL	21`	19
7.	DEVASHISH DURYODHAN BISEN	AB	2
8.	DEVASHRI DURYODHAN BISEN	AB	AB
9.	HARSHAD VINOD WARTHI	AB	AB
10.	KHUSHABU H.ARIKUMAR CHOUDHARI	22	20
11.	MRUNALINI SIDDHARTH RAMTEKE	21	18
12.	MUSKAN RAMESHWAR YADAV	13	17
13.	NAGORAO DIPAK HULKE	AB	AB
14.	NIKHIL RAMKRUSHNA RAUT	AB	3
15.	NIKITA SHYAM BARAPATRE	3	4
16.	RIYA RAJU KULMETHE	AB	3
17.	SAKSHI SHANKAR JAMBHULE	AB	AB
18.	JAGRUTI AJIT RAWAT	AB	AB
19.	KALAYANI CHUDAMAN SHAHARE	16	18
20.	AANCHAL S. SINGH	12	15
21.	SHABIR RABIUL SHAIKH	AB	AB
22.	SHIKHA JAWAHARLAL YADAV	12	3
23.	SHREYA SANGHASHREE BAGDE	3	7
24.	SHRUTI MANGESH PAWAR	AB	AB
25.	SUBBU RAJNIKANT MISHRA	AB	AB
26.	SUSHMA GANGADHAR GURNULE	AB	AB
27.	TANUSHREE RAJU BHAGAT	AB	AB
28.	VAISHALI SANJAY PATLE	12	5
29.	YASHASHREE PRAMOD CHARDE	22	15

Sr. No.	Name of the Students	Paper-I	Paper-II
30.	YUKTI SURESH CHOUDHARY	22	24
31.	AFRINA RAHIM SHEIKH	23	34
32.	ANIKET VINOD KUKADE	3	9
33.	ANUSHREE GHASHYAM CHANDEL	23	37
34.	CHIRAYU BHAGWANT DOLAS	12	7
35.	DEVESH SANJAY LONGADGE	16	20
36.	GAURI ARUN RAUT	23	30
37.	SMURTI MOHAN VAIDYA	21	27
38.	SUDHANSHU RAMESH UIKEY	AB	5
39.	KETAKI RAMCHANDRA KIRPAL	21	19
40.	NIKITA SHRIRAM BHAVE	12	8
41.	PALLAVI CHANDRABHAN BORKAR	12	18
42.	PRACHAL MANIK MESHRAM	12	15
43.	PRATIKSHA SAMPAT NAVGHARE	22	23
44.	RUSHABH MADANSEN CHAUDHARI	19	8
45.	SAGAR SHRIKANT BAWANE	39	41
46.	SAMIR PRAKASH GHUMDE	17	19
47.	SHITAL GOPICHAND BANKAR	21	19
48.	SHREYA RAVINDRA DESHMUKH	AB	AB
49.	SWATI SANJAY LONGADGE	17	19
50.	VAIBHAV ARUN MALEWAR	22	19
51.	VAISHNAVI TARACHAND KAPSE	40	29
52.	VISHAKHA DEVIDAS BASWANTE	5	7
53.	ABHISHEK D. DESHBHRATAR	AB	3
54.	VARSHA R. TIWARI	11	6

Amol Pimpalshende

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

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Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- I Examination

STATISTICS (Probability Theory)

Paper-I

Time: 2 to 3.30 pm] **[Maximum Marks: 25**

Q.1 (A) Define a random variable. Let X denotes the product of number of heads obtained and the number of tails obtained when three unbiased coins are tossed. **10**

Find :

(i) The p.m.f. of X

(ii) E(X)

(iii) V(X).

(B) Define mathematical expectation of: (i) a r.v. X (ii) a function of a r.v. X. State and prove properties of Mathematical expectation.

OR

(E) Define expectation of a random variable. If $X_1, X_2, \ldots X_n$ are n random variables and $a_1, a_2, \ldots$ an are n Constants then: show that : $E(a_1X_1 + a_2X_2 + \ldots + a_nX_n] = a_1 E(X_1) + a_2 E(X_2) + \ldots + a_n E(X_n)$

(F) Define a continuous r.v. Let X be a continuous r.v. with p.d.f.

$$f(x) = cx^2, 0 < x < 1$$
$$= 0 \text{ elsewhere}$$

(i) Determine C

(ii) Find E(X)

(iii) Find P[X>0.5]

Q2. (A) Define : **10**

(i) r th raw moment

(ii) r th central moment of r.v. X.

Derive the expression for rth central moment in terms of raw moments.

Hence obtain the expressions for second, third and fourth central moments in terms of raw Moments.

OR

(E) For a r.v. X, define

i) Mean

ii) Mean deviation from mean

iii) Standard deviation

iv)Quartile deviation

v) Coefficient of Skewness β_1

Q3. Solve **5**

A) Define standard deviation of a random variable

B) Define skewness of the probability distribution of a r.v.

C) Define a measure of Kurtosis.

D) Define range

E) Define Quartile

DCH

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- I Examination

STATISTICS (Probability Theory)

Paper-I

Time: 11.00 am to 12.30 pm] **[Maximum Marks: 25**

Q.1 Either **5 + 5 = 10**

A) Explain classical approach and relative frequency approach to probability. State their merits and demerits.

B) State additive law of probability for n events. Prove it for 3 events.

OR

C) Define :

(i) A random experiment

(ii) The sample space

(iii) An event and give an example of each.

D) Give axiomatic definition of probability and prove the following :

(i) $P(\emptyset) = 0$

(ii) $P(\bar{A}) = 1 - P(A)$

(iii) If $A \subset B$ then $P(A) \leq P(B)$.

Q.2 Either **5 + 5 = 10**

A) Define conditional probability. Show that it satisfies the axioms of probability.

If $P(\bar{A} \cap B) = 0.1$, $P(A \cap \bar{B}) = 0.6$ and $P(A \cap B) = 0.2$ find $P(A \mid B)$.

B) State and prove multiplicative law of probability, for n events.

OR

c) Two fair dice are thrown. Given that the two faces do not show the same number, find :— (i) the probability that the sum of the faces is even.

(ii) the probability that one die shows face number 1.

D) State and prove Baye's theorem.

Q.3 Each question carry one marks **5-marks**

a) Using axiomatic definition of probability show that $P(\emptyset) = 0$.

b) Define mutually exclusive events.

c) Define Impossible event.

d) Define Exhaustive events.

e) At least one of the three events occurs.

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- I Examination

STATISTICS (Descriptive statistics)

Paper-II

Time: 11 ~~am to 12.30~~ pm] 2.00 to 3.30 pm. **[Maximum Marks: 25**

Q.1 (A) Explain histogram and also write its all cases with example. **10**

(B) Explain classification and tabulation of data .

OR

(C) Write Advantages of diagrammatic and graphical representation.

(D) Define open class and class boundaries with example.

Q2. (E) Define bar-diagram and also write all types of bar-daigram with example . **10**

OR

(F) i) Write steps for constructions of classes .

ii) Difference between inclusive and exclusive method.

Q3. Solve **5**

A) Define types of classification.

B) Define pie diagram.

C) What are the rules of selection of scale.

D) Define index and footnote.

E) ---------- is also called as Circular diagram .

NRB

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- I Examination

STATISTICS (Descriptive statistics)

Paper-II

Time: 11.00 am to 12.30 pm] **[Maximum Marks: 25**

Q.1 Either **5 + 5 = 10**

A) Define qualitative data and quantitative data with examples.

B) Define primary data and secondary data and also give its difference.

OR

C) Define :

(i) relative risk

(ii) odd"s ratio

(iii) Scrutiny of data .

D) Define population census ; and also its principles.

Q.2 Either **5 + 5 = 10**

A) Explain direct personal interview , indirect oral interview and mailed questionnaire method of data collection

B) Write the difference between discrete and continuous data.

OR

c) what is retrospective study and prospective study .

D) Explain in detail the method of census.

Q.3 Each question carry one marks **5-marks**

a) Define Absolute zero.

b) what are the terminology used in data collections.

c) Define Questionnaire

d) what are the stages of population census

e) Define ordinal scale.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-I
F-1

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	ANCHVEER R.CHIMANE	9529825377	anchveerchimane13@gmail.com						
2.	GIRENDRA K.CHAUDHARY	7972882455	girendra68@gmail.com						
3.	OM SHRIRAM KALASKAR	8329227284	kom84257@gmail.com						
4.	SUMIT RAMBABU MAHATO	7980929105	SumitMahato964@gmail.com						
5.	TUSHAR V. MANERAO	8788771765	Tusharmaneraoo444@gmail.com						
6.	URVASHI J. LIMJE	8459021488	urvashilimje5@gmail.com						

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

In- Charge
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Dharampeth M.P.Deo Memorial Science College
Nagpur

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IQAC Coordinator

PROF. PITAMBAR T. HUMANE
IQAC Co-ordinator
Dharampeth M.P. Deo Memorial
Science College, Nagpur-440033

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-I
F-2

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	AAYUSH SANTOSH RAI	9359575796	Sxai119189@gmail.com			Ayush			
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4.	AYUSH D.YADAV	9529335441	Ayushydovji1998@gmail.c	Ayush	Ayush	Ayush	Ayush		
5.	AYUSH MANGESH ASOLKAR	9623150600	ayushasolkar5@gmail.com	Ayush	Ayush	Ayush	Ayush		
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9.	ISHA RAMESH KEWATE	7709485510	ishakewate@gmail.com	Ikewate.	Ikewate	Ikewate.	Ikewate.		
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11.	MRUNALI SANJAY LAJURKAR	7020428295	abhijitsoft007@gmail.com	Mlajurka	Mlajurka	Mlajurka	Mlajurka		
12.	MUSKAN D.MATHURE	7666872966	mathuremuskan@gmail.com	Mathure	Mathure	Mathure	Mathure		
13.	NISHANT ANIL KADU								
14.	PUJA DHARMENDRA BELDAR	8788940362	pujabeldar169@gmail.com	Puja.	Puja.	Puja.	Puja		
15.	PURVA DILIP ZINGRE								

16.	REVATI PRAKASH BONDE	7038001132	Khushi Bonde15.@gmail.com	Revati	Revati	Revati			
17.	RITIKA SATISH AMTE								
18.	RUCHIKA P.KURHADKAR	7066396136	kurhadkarruchika@gmail.com	Rkurhadkar	Rkurhadkar	Rkurhadkar	Rkurhadkar		
19.	SAMRUDDHI P.PATLE	9356630047	samruddhipatle@gmail.com	S.P.Patle	S.P.Patle	S.P.Patle	S.P.Patle		
20.	SARVESH MAHENDRA GETHE	9156490826	sarveshgethe357@gmail.com	S.Gethe	S.Gethe	S.Gethe	S.Gethe		
21.	SAURABH ARUN BAGDE	9322512835	Bagde374@gmail.com	Saurabh	Saurabh	Saurabh	Saurabh		
22.	SHANTANU M.SONGIRKAR	7620413678	shantanusongirkar@gm	Sms	Sms	Sms	Sms		
23.	SHREYA BHAGWAN MATE	8767436448	shreyamate2005@gmail.com	Smate	Smate	Smate	Smate		
24.	SUHANI MADHUKAR DAHAKE	8767218579	dahakesuhani9@gmail.com	Suhani	Suhani	Suhani			
25.	TANISHKA SAGAR YADAV	8446381480	Ytanishka114@gmail.com	Tyadav	Tyadav	Tyadav	Tyadav		
26.	YASHWANT MUKESH GHIME	8698833396	yashghime06@gmail.com	Yghime	Yghime	Yghime	Yghime		
27.	YOGESH SANJAY LOHKARE	9209059602	Yageshlohkare2000@gmail.com	Ylohkare	Ylohkare	Ylohkare	Ylohkare.		

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

PROF. PITAMBAR T. HUMANE
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Name & Signature of Head of the Department

In-Charge
Department of Statistics
Dharampeth M.P.Deo Memorial Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
B.SC. SEM.I WINTER-2023

Unit Test Mark (Unit Test –I)

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	Anchveer R.Chimane	3	3
2	Aman S.Gupta	1	8
3	Ansh K. Gajbhiye	2	4
4	Ayush D.Yadav	3	5
5	Ayush S. Rai	A	5
6	Ayush M. Asolkar	4	3
7	Girendra K.Chaudhari	6	7
8	Gauri V.Ivanate	5	2
9	Gauri Dhone	13	23
10	Harsh V. Masram	2	6
11	Isha R. Kewate	9	16
12	Mrunali S. Lajurkar	10	16
13	Mayuri S. Nagpure	13	20
14	Muskan D. Mathure	15	23
15	Nishant A. Kadu	A	A
16	Om S. Kalaskar	3	1
17	Purva D. Zingre	A	A
18	Puja D. Beldar	13	12
19	Ruchika P. Kurhadkar	13	13
20	Sarvesh M. Gethe	2	7
21	Samruddhi P. Patle	7	9
22	Shreya B. Mate	7	14
23	Shantanu M. Songirikar	3	8
24	Sumit R. Mahato	3	4
25	Saurabh A. Bagde	5	8
26	Suhani M. Dahake	2	A
27	Revati P. Bonde	6	A
28	Ritika S. Amte	A	A
29	Tushar V. Manerao	3	2
30	Tanishka S. Yadav	12	21
31	Urvashi J. Limje	12	15
32	Yashwant M. Ghime	3	4
33	Yogesh S. Lohkare	4	9

In- Charge

Department of Statistics

Dharampeth M.P.Deo Memorial Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
B.SC. SEM.I WINTER-2023
Unit Test Mark (Unit Test –II)

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	Anchveer R.Chimane	7	14
2	Aman S.Gupta	5	15
3	Ansh K. Gajbhiye	3	0
4	Ayush D.Yadav	2	7
5	Ayush S. Rai	A	A
6	Ayush M. Asolkar	4	8
7	Girendra K.Chaudhari	A	6
8	Gauri V.Ivanate	3	4
9	Gauri Dhone	3	22
10	Harsh V. Masram	1	7
11	Isha R. Kewate	5	9
12	Mrunali S. Lajurkar	5	6
13	Mayuri S. Nagpure	9	11
14	Muskan D. Mathure	12	15
15	Nishant A. Kadu	A	A
16	Om S. Kalaskar	0	A
17	Purva D. Zingre	A	A
18	Puja D. Beldar	6	6
19	Ruchika P. Kurhadkar	5	11
20	Sarvesh M. Gethe	4	4
21	Samruddhi P. Patle	8	6
22	Shreya B. Mate	11	11
23	Shantanu M. Songirikar	3	2
24	Sumit R. Mahato	3	8
25	Saurabh A. Bagde	5	8
26	Suhani M. Dahake	2	A
27	Revati P. Bonde	1	A
28	Ritika S. Amte	A	A
29	Tushar V. Manerao	7	9
30	Tanishka S. Yadav	4	15
31	Urvashi J. Limje	8	8
32	Yashwant M. Ghime	5	7
33	Yogesh S. Lohkare	5	7

In- Charge
Department of Statistics
Dharampeth M.P.Deo Memorial Science College, Nagpur

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST-I SEM- III Examination

STATISTICS (Statistical Methods)

Paper-I

Time: 2 to 3.30pm] [**Maximum Marks:** 25

Q1. EITHER

(A) Write the steps for drawing a random sample of size n from Normal population with mean μ and variance σ2.

(B) Let X have the p.d.f. f(x) = $3(1-x)^2$, 0 < x < 1. Find the p.d.f. of Y = $(1-x)^3$

(C) If X follows poisson distribution with parameter 4, find the p.m.f. of Y =$\sqrt{x}$

OR

Q1 If X1 and X2 are independent standard normal variables.
Find the pdf of : (i) Y = $X_1^2 + X_2^2$

ii) U = $\frac{X_1^2}{X_2^2}$

Q2. EITHER **10**

(A) Define F-Statistic. Derive its p.d.f. Find r th raw moment about origin and hence find mean and variance of F-distribution.

OR

(B) Define chi-square statistic. State its p.d.f. Find its m.g.f. and hence find mean and variance. Also prove additive property of chi-square distribution.

Q.3 Each question carry one marks **5-marks**

(A) Define Fisher's t.

(B) Show that student's t follows Fisher's t with (n – 1) d.f.

(C) What is mode of t distribution ?

(D) Define a Random sample.

(E) Define Sampling distribution.

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST-I SEM- III Examination

STATISTICS (Statistical Methods)

Paper-II

Time: ~~2 to 3.30pm~~ 11.00 am to 12.30 pm] **[Maximum Marks:** 25

Q1. EITHER

A) i) Define pmf of two discrete random variables X and Y **10**

ii) Marginal pmf of X

iii) Conditional pmf of Y given X

let the joint probability function of discrete random variable X and Y be :

$$f(x,y) = \begin{cases} \frac{x+2y}{27}, & x = 0,1,2 \text{ and } y = 0,1,2 \\ 0 & e.w \end{cases}$$

i)present the joint distribution of X and Y in bivariate table

ii) find marginal distribution of X and Y .

iii) find E(X)

iv)derive conditional distribution of Y given X =2

OR

(B) Define :

i) Bivariate pdf of random variables X and Y .

ii) Conditional pdf of X given Y = y.

iii) Conditional mean of X given Y = y.

iv) Conditional variance.

v) Stochastic independence.

Q2. EITHER **10**

(C) State the p.d.f. of Bivariate normal distribution. Find marginal density of Y and conditional density of X given Y = y

OR

(D) State the pmf of trinomial distribution of random variables X and Y. Find the conditional distribution of X given Y. Also find the conditional mean and variance of X .

Q 3. Solve questions from the following: **5**

(A).Define mgf of bivariate distribution.

(B) Define a statistic

(C) Define multinomial distribution.

(D) State m.g.f. of Trinomial distribution

(E) Define joint probability mass function.

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST-I SEM- III Examination

STATISTICS (Economic Statistics)

Paper-II

Time: 11 to12.30pm] **[Maximum Marks:** 25

Q1. EITHER

A) Define the terms:

(i) Price Relative (ii) Quantity Relatives.

If L (p) and L (q) represent Laspeyre's price and quantity index numbers respectively and P (p) And P (q) represent Paasche's price and quantity index numbers respectively then show that:

$$\frac{L(p)}{L(q)} = \frac{P(p)}{P(q)}$$

(B) What are Chain Indices? Explain the construction of chain indices. Distinguish between chains Base indices and fixed base indices.

5+5

OR

(C) Discuss the following tests to be satisfied by the index number formula:

(1) Time Reversal Test

(2) Factor Reversal Test

(3) Circular Test.

Show that Fisher's Index Satisfies T.R.T. and F.R.T. **10**

Q2. EITHER

(A) Explain wholesale price index no. and Index no. of Industrial production

(B) State the uses and limitation of index number **5+5**

Q2. OR

(C) Explain the three methods of estimation of National Income.

(D) Explain the technique of base shifting stating its purpose. What is splicing of index number Series? **5+5**

Q 3. Solve questions from the following: **5**

(A) Define 'link relative'.

(B) Fill in the blanks:

Laspe____ Index has an upward bias and Paasche____ index has a downward bias.

(C) Define price and quantity relatives.

(D) Differentiate between inflation and deflation.

(E) Name the three methods of computing national income

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST-I SEM- III Examination

STATISTICS (Economic Statistics)

Paper-II

Time: 2 to ~~3.30~~pm] 11.00 to 12.30 pm. [**Maximum Marks:** 25

Q1. EITHER

(A) State demand and supply function. Explain law of demand and supply.

(B) Explain the concept of an equilibrium price. Discuss price elasticity of demand and price elasticity of supply. **5+5**

Q1. OR

(C) Explain income and cross elasticity of demand.

(D) State Engel's Law. Define Engel's Curve.

(E) State Pareto's Law of income distribution. Explain the terms used in Pareto's function.

(F) State Giffen's Paradox **2.5×4=10**

Q2. EITHER

(A) Write a note on business cycles.

(B) Distinguish between additive and multiplicative model in time series.

(C) Describe the method of ratio to trend for measuring seasonal variation in time series.

(D) Explain the uses of studying time series. **2.5×4=10**

Q2. OR

(E) Define time series with an example. Explain the four components of time series giving an Example of each component.

(F) Explain the method of least squares for the measurement of the following types of trend Equations

(1) A quadratic trend

(2) An exponential trend

State the merits of this method. **5+5**

Q.3 Each question carry one marks **5-marks**

(A) Define Giffen's goods.

(B) Define Gini's concentration ratio.

(C) Differentiate between seasonal and cyclic variation in time series.

(D) What is the purpose of deseasonalization of time series data?

(E) What is meant by curves of concentration?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-III / S-1

S-1Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	DEVANGI SHRIKANT AGASHE								
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3.	YADNYIK SHASHANK DHAGE	76							
4.	SURAJ RAJBIHARI DUBEY	7620170188	SURAJ RDUBEY 144@						
5.	SRUSHTI ARUN GAIKWAD								
6.	AKSHAY RANJIT SINGH	9325921260	akshaysingh3580804@gmail.com	Akshay	Akshay	Akshay	Akshay		
7.	NAYAN NANAJI WALTHARE	7841870747	Nayanwalthare4@gmail.com	Swalthare	Swalthare	Swalthare	Swalthare		
8.	Vivek Santosh sah	9923763071	Vivek.sah1878@gmail.com	Vivekah	Vivekah	Vivekah	Vivekah		

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

PROF. PITAMBAR T. HUMANE
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Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

Department of Statistics
Dharampeth M.P.Deo Memorial Science Coll
Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-III
S-2

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
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2.	PRANALI R. DEHANKAR	8167581278	Pdehna@gmail.com	Pranali RID	Pranali RID	Pranali RID	Pranali RID		
3.	ISHITA NILESH DESHPANDE	9130091540	ishitandeshpande21004@gmail.com	Ishita	Ishita	Ishita	Ishita		
4.	JAGRUTI G. FULKAWAR	8767911307	jagrutifulkawar@gmail.com	Jagruti	Jagruti	Jagruti	Jagruti		
5.	PRATISH DILIP GOLAIT	9579343851	Pratishgolait99@gmail.com	Pratish	Pratish	Pratish	Pratish		
6.	PRANALI VIPIN GUPTA	7020069377	[illegible]991537@gmail.com	Gupta	Gupta	Gupta	Gupta		
7.	UTKARSHA SANJAY INGALE								
8.	DEVASHRI PREMDAS KAKDE	9021344265	[illegible]@gmail.com	D.P.Kakde	D.P.Kakde	D.P.Kakde	D.P.Kakde		
9.	NIKHIL SANJAY KALE	9529113941	nikhilkale1809@gmail.com	Nkale	Nkale	Nkale			
10.	PRITAM SURENDRA KATWE	8010793204	Pritamkatwe655@gmail.com	Pkatwe	Pkatwe	Pkatwe	Pkatwe		

11.	MOHIT MAROTI KHIRDEKAR	8055328357	mohitkhirdekar@gmail.com						
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14.	VIDYA EKNATH LOHI	7020963219	Vidyalohi8@gmail.com						
15.	SAKSHI AJAY MISHRA	9529889315	Smishra939683@gmail.com						
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Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF STATISTICS

B.SC. SEM.III WINTER-2023

Unit Test Mark (Unit Test –I)

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	AKSHAY R.SINGH	A	2
2	DEVANGI S.AGASHE	A	A
3	DEVASHRI P. KAKDE	7	9
4	DIVYANI V. ZAGADE	A	12
5	ISHITA N.DESHPANDE	7	10
6	JAGRUTI G.FULKEWAR	7	5
7	JANHVI H.LAIBER	7	13
8	JANHVI A.KIRNAPURE	5	7
9	JANHVI V.KHODE	5	10
10	MAHIMA S.KHARE	6	8
11	MEGHA S.BALLAV	12	16
12	MOHIT M.KHIRDEKAR	2	3
13	NAYAN N.WALTHARE	3	1
14	NIKHIL S.KALE	0	2
15	NISHA S.KOSARKAR	4	5
16	PRADNYA B.TIRPUDE	4	6
17	PRANALI V.GUPTA	15	19
18	PRANALI R.DEHANKAR	3	3
19	PRATISH D.GOLAIT	0	0
20	PRITAM S.KATWE	1	3
21	RUTIKA G.YADAV	6	9
22	SAKSHI A.MISHRA	5	5
23	SRUSHTI A.GAIKWAD	A	A
24	SONIA S.NIWAL	8	17
25	SURAJ R.DUBEY	0	0
26	UTKARSHA S.INGALE	A	A
27	VARSHA L.TURKAR	4	13
28	VEENA U.BORIKAR	7	12
29	VIVEK S.SAH	0	0
30	VIDYA E.LOHI	2	6
31	YADNYIK S.DHAGE	A	A

In- Charge

Department of Statistics

Dharampeth M.P.Deo Memorial Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF STATISTICS

B.SC. SEM.III WINTER-2023

Unit Test Mark (Unit Test –II)

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	AKSHAY R.SINGH	0	4
2	DEVANGI S.AGASHE	A	A
3	DEVASHRI P. KAKDE	4	5
4	DIVYANI V. ZAGADE	7	8
5	ISHITA N.DESHPANDE	4	10
6	JAGRUTI G.FULKEWAR	6	6
7	JANHVI H.LAIBER	8	5
8	JANHVI A.KIRNAPURE	2	3
9	JANHVI V.KHODE	6	5
10	MAHIMA S.KHARE	A	6
11	MEGHA S.BALLAV	16	2
12	MOHIT M.KHIRDEKAR	1	0
13	NAYAN N.WALTHARE	2	1
14	NIKHIL S.KALE	0	A
15	NISHA S.KOSARKAR	3	6
16	PRADNYA B.TIRPUDE	A	5
17	PRANALI V.GUPTA	12	12
18	PRANALI R.DEHANKAR	2	1
19	PRATISH D.GOLAIT	0	0
20	PRITAM S.KATWE	3	1
21	RUTIKA G.YADAV	11	10
22	SAKSHI A.MISHRA	11	8
23	SRUSHTI A.GAIKWAD	A	A
24	SONIA S.NIWAL	17	12
25	SURAJ R.DUBEY	A	A
26	UTKARSHA S.INGALE	A	A
27	VARSHA L.TURKAR	6	3
28	VEENA U.BORIKAR	8	7
29	VIVEK S.SAH	0	0
30	VIDYA E.LOHI	5	3
31	YADNYIK S.DHAGE	A	A

In- Charge
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UNIT TEST-I SEM-~~IV~~ 5 Examination Sem. V

STATISTICS (Statistical Quality Control)

Paper-~~IV~~ I

Time: 11 to 12.30pm] **[Maximum Marks: 25**

Q1. EITHER

(A) a] What is SQC ? Explain process control **10**

b] why R chart preffered over sigma chart.

OR

(B) i] Give the criteria for detecting lack of control in $\bar{x}$ and r chart

ii] what is the principle of construction of control limits and 3sigma control limits.

Q2. EITHER

c] What is AQL , explain in brief.

D] Explain ASN and ATI in brief. **10**

OR

E] What is continuous sampling inspection plan also define CSP I , CSP II , CSP III

Q.3 Each question carry one marks **5**

1] what is OC curve

2] define consumer risk

3] define producer risk

4] explain Natural tolerance limits

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UNIT TEST-I SEM-~~IV~~ 5 Examination

STATISTICS (SURVEY SAMPLING TECHNIQUES)

Paper-I

Time: 2 to 3.30pm] [**Maximum Marks: 25**

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1. (A) Explain the graphical method of solving LPP
(B) Explain the unbounded case of graphical method **10**

OR

(c) i) Explain canonical form of LPP
ii) write the genral LPP form.

2. (A) Explain the procedure of Simplex Method
(B) explain the variation cases of simplex method : unbounded case and infeasible solution case. **10**

OR

(c) What is big M method explain in brief. And also explain all the three cases .

Q.3 Each question carry one marks

(A) Define basic feasible solution
(B) Define convex function
(C) Define Non- degenerate basic feasible solution.
(D) Define hyper plain
(E) Define convex combination and convex set

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UNIT TEST-I SEM-~~III~~ Examination Sem. V

STATISTICS (SURVEY SAMPLING TECHNIQUES)

Paper-II

Time: 2 to 3.30pm] [**Maximum Marks: 25**

1. (A) Define proportional allocation and obtain the formula for variance of the sample mean under this allocation. Compare stratified sampling under proportional allocation with SRSWOR. Comment on the efficiency. 10

OR

(B) Derive an expression for the estimated gain in precision due to stratification. 10

2. (A) Obtain an expression for efficiency of cluster sampling with that of SRSWOR in terms of intraclass correlation coefficient. 10

OR

(B) For a population with linear trend $Y_i = \mu + \theta.i$ for i = 1, 2. -----, N; find,

(i) An expression for the population mean.

(ii) Variance of the estimate of population mean under SRSWOR, stratified random sampling and Systematic sampling procedures. Compare the efficiencies of these procedures. 10

Q.3 Each question carry one marks

(A) State one advantages of systematic sampling.

(B) What is cluster sampling?

(C) Define Neyman allocation.

(D) Give one example of real life situation where systematic sampling may be used

(E) Give two merits of cluster sampling.

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UNIT TEST-I SEM- V Examination

STATISTICS (SURVEY SAMPLING TECHNIQUES)

Paper-II

Time: 11 to 12:30pm] **[Maximum Marks: 25**

Q1. EITHER

(A) Describe the divisions and functions of C.S.O. and N.S.S.O **10**

Q1. OR

(B) Describe the advantages of sample survey over complete enumeration method.

(C) Define: (i) an estimator (ii) standard error of estimator (iii) sampling unit.

(D) What are sampling errors? Explain their causes.

Q2. EITHER

(A) Distinguish between SRSWOR and SRSWR. Show that sample mean is an unbiased estimator of population mean in both the cases. State the expressions for variance of sample mean when SRSWR is used. Derive the expression for unbiased estimate of the variance.

10

OR

(B) In sampling for attributes, show that sample proportion is an unbiased estimator of population Proportion when SRSWR is used. Derive the expression for its variance. Also obtain an unbiased estimator of the variance.

Q.3 Each question carry one marks

Define the terms: **5-marks**

(i) Frame

(ii) Sampling unit

(iii) Probability sampling

(iv) Sampling error

(v) Non-sampling error.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-1 / T-2

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
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6.	KHUSHI DINESH WAGHADE	9156520783	Khushiwaghade@gmail.com	K.D. Waghade	K.D. Waghade	K.D. Waghade	K.D. Waghade		
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14.	SWAMINI SATISH RAJANKAR								
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20.									

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Name & Signature of Head of the Department

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Dr. Akhilesh Peshwe
Principal

Principal
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
B.SC. SEM.V WINTER-2023

Unit Test Mark (Unit Test – I)

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	AMAN D. CHAVHAN	A	A
2	ANJALI V. RANGANKAR	2	A
3	AVISHKAR A. BANSOD	2	A
4	DEVANG S. KARIA	A	A
5	HARSHAL N. AJANKAR	4	A
6	ISHA S. NEMADE	7	9
7	KETAN S. BHOYAR	A	A
8	KHUSHI D. WAGHADE	7	1
9	PRAJKTA S. PAWAR	6	A
10	P. R. PARASHAR	A	A
11	PIYUSH D. DAFARE	A	A
12	SAHIL B. SINGH	0	A
13	SUMIT V. SABLE	A	A
14	SARTHAK S. JICHKAR	0	A
15	SUMAN R. SINGH	5	A
16	SWAMINI S. RAJANKAR	A	A
17	SHIVANI G. GHUBADE	A	A
18	VAISHNAVI D. JADHAV	6	7
19	VICKY A. SINGH	11	3
20	VRUSHALI K. SHAHARE	A	A

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
B.SC. SEM.V WINTER-2023

Unit Test Mark (Unit Test – II)

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	AMAN D. CHAVHAN	A	A
2	ANJALI V. RANGANKAR	6	1
3	AVISHKAR A. BANSOD	0	6
4	DEVANG S. KARIA	A	A
5	HARSHAL N. AJANKAR	8	2
6	ISHA S. NEMADE	12	6
7	KETAN S. BHOYAR	3	2
8	KHUSHI D. WAGHADE	2	3
9	PRAJKTA S. PAWAR	5	6
10	P. R. PARASHAR	A	A
11	PIYUSH D. DAFARE	A	A
12	SAHIL B. SINGH	0	1
13	SUMIT V. SABLE	0	2
14	SARTHAK S. JICHKAR	2	1
15	SUMAN R. SINGH	0	9
16	SWAMINI S. RAJANKAR	A	A
17	SHIVANI G. GHUBADE	A	A
18	VAISHNAVI D. JADHAV	12	5
19	VICKY A. SINGH	9	7
20	VRUSHALI K. SHAHARE	1	3

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Nagpur

(15)

Bachelor of Science (B.Sc.) Semester—I (C.B.S.) Examination
Basic Circuit Components And Network Analysis

Paper—I(Unit 1 & 2)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary.

Q. 1 EITHER

A. What are different types of switches? Explain them in brief with symbol. 5

B. What are different types of transformers? Explain them in brief with symbol. 5

OR

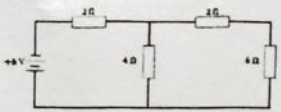
C. Define Resistor. What are the factors affecting resistance of a resistor? 5

D. What is a capacitor? What are the factors affecting capacitance of capacitor. 5

Q. 2 EITHER

A. State and explain milliman's theorem. 5

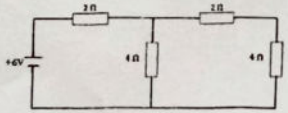
B. Calculate the current through the resistor of resistance 6 Ω using Thevenin's Theorem. 5



OR

C. State and explain Norton's theorem? 5

D. Calculate the current through the resistance 4Ω by applying Norton's Theorem. 5



Q.3 Solve any Five. 1*5

a) List different types of resistors?

b) What is relay?

c) What are the uses of relays?

d) State Thevenin's Theorem,

e) What is a Constant Current source?

f) State Kirchhoff's Voltage law.

Bachelor of Science (B.Sc.) Semester—I (C.B.S.) Examination

Fundamentals of Digital

Electronics

Paper—II (Unit 3 & 4)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— ALL questions are compulsory and carry equal marks & Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Explain the terms pair, quad, octet, rolling and overlapping with reference to K-map. 5

B. Draw four variables k-map and explain overlapping with suitable examples. 5

OR

C. Draw and explain 4- bit Adder-Subtractor. 5

D. Draw and explain 8: 1 Mux. 5

Q.2 Either

A. Explain construction and truth table of JK flip flop. What is race a round condition? 5

B. Explain construction and operation of T flip flop. 5

C. OR

D. What is the difference between D and T flip flop. 4

E. Construct a SR flip flop and explain working of the circuit. What is the draw back of SR flip Flop? 6

Q.3 Solve any five 1*5

a) How many number of cells will be there with 3 variables ?

b) What is decoder?

c) What is encoder?

d) What is the function of preset input in FF?

e) What is edge trigger clock?

f) Draw the circuit diagram of Master Slave FF

15

Bachelor of Science (B.Sc.) Semester—I (C.B.S.) Examination
Fundamentals of Digital Electronics

Paper—II (Unit 1 & 2)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary.

Q. 1 **Either**

A) Explain the method of conversion of binary number to gray number. 5

B) Convert the following 2 + 3

i) $(1101)_2 = (\quad)_{10}$

ii) $(764.375)_{10} = (\quad)_2$

OR

C) Describe 1's and 2's complement method of binary subtraction using example. 5

D) Convert the following: 3+2

i) $(372.34)_8 = (\quad)_{16}$

ii) $(22.5)_{10} = (\quad)_2$

Q. 2 **Either**

A) How basic gates are designed using only NOR gates? 5

B) Draw the truth table and symbols of basic logic gates. 5

OR

C) State and prove De- Morgan's theorem. 5

D) Simplify the Boolean expression AB(BC + AC) using Boolean laws and construct the logic diagram before and after simplification. 5

Q. 3 **Solve any 5** 1*5

a) $(11100.1001)_2 = (\quad)_{10}$

b) What is radix?

c) Convert decimal number 23 to Excess-3 code.

d) Construct the logic diagram for the following Boolean expression $(\overline{A} + B).(A + \overline{B})$ using NAND gate.

e) Prove $(A + B)(A + C) = A + BC$.

f) Draw symbol and truth table of 2 input ExOR gate.

30

Bachelor of Science (B.Sc.) Semester—I (C.B.S.) Examination
Basic Circuit Components And Network Analysis
Paper—I(Unit 3 & 4)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Draw the phasor diagrams and explain ac circuit with
   i. Resistance only
   ii. Inductance only
   iii. Capacitance only 10

OR

B. Explain the transient behaviour of: RC, RL, RLC circuit. 10

Q.2 Either

A. Explain the construction and working of piezoelectric transducer. 5
B. Explain the construction and working of LVDT. 5

OR

C. Explain the construction and working of strain gauges. 5
D. Explain the construction and working of thermistors. 5

Q.3 Solve any five 1*5

a) Define Transducer.
b) What is RTD?
c) Write any two Parameter of electrical transducer.
d) Define for ac: Peak value, average value.
e) Define for ac: Frequency, period.
f) Define for ac: rms value, wave length.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF ELECTRONICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-3 & F-4

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	ABHISHEK DNYANESHWAR UIKEY	9356813272	Abhishekuikey906@gmail.com	Allikey	Allikey	Allikey	Allikey	Allikey	
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14.	ROHIT VINODKUMAR KALLO	7387122119	Rohit kallo 202 67@gmail	Rohit	Rohit	Rohit	Rohit	—	
15.	RUTUJA SANTOSH WANARE	9604757647	Rutujawanare903@gmail.com	RWanare	RWanare	RWanare	RWanare	RWanare	

16.	SATYAM DEEPAK CHATURVEDI	9699226858	Satyamchaturvedi 961@gmail.com	Satyam	Satyam	Satyam	Satyam	Satyam	
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18.	SHRUSHTI MAHENDRA PANDAV	9699246860	shrushtipandav2000@gmail.com	Pandav	Pandav	Pandav	Pandav		
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Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24
Marksheet Sheet (DVV)
B. Sc. Sem.-I
F-4 & 3

Sr. No.	Name of the Students	Test-1	Test-2	Test-3	Test-4	TOTAL MARKS	Signature
		Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	ABHISHEK DNYANESHWAR UIKEY	9	3	2	5	19	Allikey
2.	ACHAL KRUMDAS GAHUKAR	1	0	3	4	8	Agahukar
3.	DANIS YASHIN CHHAWARE	2	10	12	AB	24	Danis..
4.	DARPAN SURESH PAWAR	5	2	2	2	11	D.S. Pawar
5.	DARSHAN MADAN BRAMHANE	7	5	2	1	15	DBrmh.

6.	HIMANSHU PRAKASH RAUT	9	4	15	11	39	HRaut
7.	NAINA YUVRAJ FUKAT	9	4	12	7	32	Nfukat
8.	NILESH GOPAL DHONE	16	5	8	14	43	N. G. Dhone
9.	PRANALI RAJESH SHENDE	6	9	2	7	24	P.R.Shende
10.	PREETI RAMPRASAD BISEN	AB	6	4	10	20	PBisen
11.	PRIYAL AJAYRAO SURJUSE	8	10	3	8	29	Purjuse
12.	PRIYANKA MANOHAR NAGDEVE	0	8	2	2	12	PNagdeve
13.	PRIYANSHU BABARAO KHOBE	16	2	13	10	41	P.B.Khobe
14.	ROHIT VINODKUMAR KALLO	AB	AB	AB	AB	0	
15.	RUTUJA SANTOSH WANARE	8	12	7	11	38	RWanare

16.	SATYAM DEEPAK CHATURVEDI	1	3	13	0	17	
17.	SEJAL DILIP CHICHMALKAR	7	12	8	12	39	
18.	SHRUSHTI MAHENDRA PANDAV	0	2	5	2	9	
19.	SOHAM ABHAY KELKAR	5	3	1	0	9	
20	TEJAS SUNIL MESHRAM	1	6	2	7	16	
21.	UJWALA SHIVSHANKAR NEWARE	0	3	2	6	11	
22.	UMA BASANT TEMBHARE	AB	1	AB	4	5	
23.	VAIBHAV DHOLE	3	2	8	4	17	
24.	VIVEK BECHAN YADAV	4	AB	5	AB	9	
25.	YASHASWI PRABHAKAR BIJWE	7	9	13	8	37	

F4

Bachelor of Science (B.Sc.) Semester—III (C.B.S.) Examination
Analog Circuits
Paper—I (Unit 3 & 4)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Explain construction and working of transformer coupled class A power amplifier. 5

B. Explain construction and working of Class B push pull amplifier. 5

OR

C. Explain construction and working of Complementary symmetry Class B power amplifier. State its advantages and disadvantages. 10

Q.2 Either

A. Explain construction and working of Wein Bridge oscillator. State advantages, disadvantages and applications of Wein bridge oscillator. 10

OR

B. What do you mean by frequency stability? Discuss various factors that affects on frequency stability. 5

C. Draw the block diagram of feedback amplifier and explain each block. 5

Q.3 Solve any Five 1*5

a) What is power amplifier?
b) Draw circuit diagram of class AB power amplifier.
c) How crossover distortion can be avoided?
d) What is crystal oscillator?
e) What is feedback amplifier?
f) Draw circuit diagram of phase shift oscillator.
g) What is Barkhausen Criteria ?

Bachelor of Science (B.Sc.) Semester—III (C.B.S.) Examination
Analog Circuits
Paper—I (Unit 1 & 2)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary

Q.1 EITHER

A. What is rectifier ? Give the types of rectifier and explain construction and working of half wave rectifier along with input and output waveform. 10

OR

B. What is Clamper ? State different types of Clamper and explain them. 10

Q.2 EITHER

A. Derive an expression for voltage gain in terms of h-parameters foe CE mode of transistor. 10

OR

B. Draw the circuit diagram and explain the operation of voltage divider bias circuit. 10

Q. 3 Solve any five 1*5

a) Draw the positive clipper circuit?
b) What is filter?
c) Draw the circuit diagram of bridge rectifier.
d) What is thermal runaway?
e) State the different factors that affect stability of transistor.
f) Draw the circuit diagram of fixed base bias circuit

Bachelor of Science (B.Sc.) Semester—III (C.B.S.) Examination
Linear Integrated Circuits
Paper—II (Unit 1 & 2)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Draw the block diagram of Operational amplifier and explain each block. 10

OR

B. Explain different parameters of Operational amplifier. 10

Q.2 Either

A. Explain integrator in detail with circuit diagram and derivations. Also give its application. 10

OR

B. Explain differentiator circuit in detail with circuit diagram and derivations. Also give its application. 10

Q.3 Solve any Five. 1*5

a) Draw the symbol of operational amplifier.
b) What is open loop configuration?
c) What is closed loop configuration
d) Draw the circuit diagram of Adder using Op- Amp
e) Draw the circuit diagram of Inverting Amplifier.
f) List any two characteristics of an ideal op-amp

Bachelor of Science (B.Sc.) Semester—III (C.B.S.) Examination

Linear Integrated Circuits

Paper—II (Unit 3 & 4)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.

(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Draw block diagram of IC 555 and explain its working. 10

OR

B. Explain voltage comparators using an Op-amp. 5

C. Explain the working of PAM using IC 555. 5

Q.2 EITHER

A. Explain need and working of Sample and Hold circuit. 6

B. State applications of sample and hold circuit. 4

OR

C. Explain the working of Active High pass Butterworth Filter. 5

D. Explain Band Pass Filter. 5

Q.3 Solve any Five 1*5

a) In astable 555 timer if width of output pulse is 2ms and T=3.5ms, What is the duty cycle?

b) Draw the circuit diagram of monostable multivibrator using IC555.

c) Draw the circuit diagram of op-amp as Schmitt Trigger.

d) Write any two advantages of using sample and hold circuit.

e) What is second order filter?

f) Draw the circuit diagram of active low pass filter.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF ELECTRONICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-3 & S - 4

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & Ii	Test-2 Paper-I Unit-Iii & Iv	Test-3 Paper-Ii Unit-I & Ii	Test-4 Paper-Ii Unit-Iii & Iv	Assignment Or Any Other Activity	Remarks If Any
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3.	Yogita Karemore	8381045307	swara.karemore25@gmail.com	Karemore	Karemore	Karemore	Hwarkhede		
4.	Vaidhree. B. Gangal	7507907278	gangalvaidhree@gmail.com.	Gangal	Gangal	Gangal	Gangal		
5.	Aayushi V. Singh	8459056697	aashusingh55191@gmail.com	Singh	Singh	Singh	Singh		
6.	Isha I. Waghmare	8855919474	ishawaghmare9474@gmail.com	Isha	Isha	Isha	Isha		
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF ELECTRONICS

Internal Assessment 2023-24

Marksheet Sheet (DVV)

B. Sc. Sem.-III

S-4

Sr. No.	Name of the Students	Test-1	Test-2	Test-3	Test-4	Total Marks	Signature
		Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1. 05	AAYUSHI VIKRAM SINGH	4	1	3	4	12	Singh
2. 24	ABHISHEK RAVINDRA SINGH	9	1	3	10	23	Asingh
3. 9	ISHA ISHWAR WAGHMARE 9+9	0	AB	0	AB	0	Isha
4. 6	MONALI NARENDRAJI SHENDE	0	AB	0	1	1	Monali
5. 13	PRIYANSHU PRADEEP SINGH	4	4	4	9	21	P Singh
6. 24	SANDEEP RAKESH KUMAR KUMAR	8	1	6	4	19	Sp
7. 30	SIMRAN NARENDRA DHIMOLE B+B		AB	AB	AB	0	Dhimole

8.	TANU AJAY SINGH	9	3	4	7	23	Tanu
9.	TEJAS RAJESH CHELMELWAR	2	4	0	1	7	
10.	TEJAS RAMESH DONGRE	3	0	0	0	3	Tejas
11.	TUSHAL RUPKUMAR ACHARE	7	2	5	5	19	Tushal
12.	VAIDHAVI BABURAO GONGAL	2	2	0	1	5	Gongal
13.	VED SUDHIR CHOUDHARY	0	0	2	0	2	Ved
14.	VEDANT ONKAR UMRETKAR	7	1	5	7	20	Ved
15.	VINEET SINGH	9	0	1	1	11	Vineet
			S3				
1	HARSHATA GUNDERAO WARKHEDE	6	5	8	7	26	Harshata
2	PRERNA MARTANDRAO NIMBALKAR	0	AB	00	AB	0	
3	YOGITA JAYSING KAREMORE	4	3	1	AB	8	Karemore
4	UDAY BAGHELE	11	8	3	9	31	Baghele

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination
Modern Communication Systems
Paper—I (Unit 1 & 2)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

D. Draw the block diagram of Optical fiber communication system and explain each block. 10

OR

E. Explain the working principle of Laser diode. 6

F. Explain the advantages of Optical fiber communication. 4

Q.2 Either

E. Explain different modulation techniques. 5

F. Explain Amplitude Shift Keying(ASK). 5

OR

G. Explain Pulse code modulation. 5

H. Explain Delta modulation. 5

Q.3 Solve any five 1*5

g) What are Step index fiber?

h) Define Attenuation.

i) Define Intermodal Dispersion

j) What is data coding?

k) What is Asynchronous transmission?

B: clor of Science (B.Sc.) Semester—V (C.B.S.) Examination

Introduction to Microprocessor 8085

Paper—II (Unit 1 & 2)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.

(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

D. Draw the block diagram of 8085 and explain each block. 10

OR

E. Explain the function of the two DMA signals HOLD and HLDA. 5

F. Discuss the three signals IO/ M, S0 and S1. 5

Q.2 Either

D. Mention the addressing modes of 8085 and explain them with one examples. 10

OR

E. What is data transfer instruction? List the data transfer instruction. 5

F. What is arithmetic instruction? List them. 5

Q.3 Solve any Five 1*5

g) Does 8085 have serial I/O control?

h) What are the widths of data bus (DB) and address bus (AB) of 8085?

i) What is the operating frequency of 8085?

j) Identify the addressing mode of instruction MVI M, 8DH

k) How many byte instruction is STA F900H?

l) Distinguish between the following pair of instructions ADD H and ADC H.

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination

Modern Communication Systems

Paper—I (Unit 3 & 4)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.

(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Why there is the need of satellite communication? 5

B. How many types of satellite communication are there? Explain one type in detail. 5

OR

C. Draw and explain the satellite communication system. 10

Q.2 Either

A. Draw the block diagram of GSM architecture and explain each functional unit in brief. 10

OR

B. Describe CDMA cellular system . State its characteristics. 5

C. What is AMPS? Explain its operation. 5

Q. 3 Solve any five. 1*5

a) What is Apogee?

b) What is Retrograde Orbit?

c) What is Transponder?

d) Give any one disadvantage of CDMA.

e) What is OSS?

f) What is MTSO?

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination

Introduction to Microprocessor 8085

Paper—II (Unit 3 & 4)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.

(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Explain memory mapped I/O Scheme and I/O Mapped I/O Scheme. 6

B. Explain the following instructions:

C. PUSH rp, POP rp, PUSH PSW, POP PSW 4

OR

D. Explain CNZ, CPE, RNZ and RPO instructions. 4

E. Explain PUSH and POP operation in Stack. 6

Q.2 Either

A. Explain enabling, disabling and masking of interrupts. 5

B. Explain synchronous and asynchronous data transfer scheme. 5

OR

C. Draw and explain block diagram, mode of operation and control word format of PPI 8255. 10

Q.3 Solve any five 1*5

a) What is stack?

b) What is Subroutine program?

c) What is the function of CALL instruction?

d) What is interrupts?

e) What is Interrupt Service Subroutine?

f) What are software and hardware interrupts?

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination
Introduction to Microprocessor 8085
Paper—II (Unit 3 & 4)

Time : One and half Hours] [Maximum Marks : 25

N.B. :— (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and well labelled diagram wherever necessary.

Q.1 Either

A. Explain memory mapped I/O Scheme and I/O Mapped I/O Scheme. 6

B. Explain the following instructions:

C. PUSH rp, POP rp, PUSH PSW, POP PSW 4

OR

D. Explain CNZ, CPE, RNZ and RPO instructions. 4

E. Explain PUSH and POP operation in Stack. 6

Q.2 Either

A. Explain enabling, disabling and masking of interrupts. 5

B. Explain synchronous and asynchronous data transfer scheme. 5

OR

C. Draw and explain block diagram, mode of operation and control word format of PPI 8255. 10

Q.3 Solve any five 1*5

a) What is stack?
b) What is Subroutine program?
c) What is the function of CALL instruction?
d) What is interrupts?
e) What is Interrupt Service Subroutine?
f) What are software and hardware interrupts?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-V
T-3 & T- 4

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment Or Any Other Activity	Remarks If Any
				Paper-I Unit-I & Ii	Paper-I Unit-Iii & Iv	Paper-Ii Unit-I & Ii	Paper-Ii Unit-Iii & Iv		
1.	Aasmin A. Sheikh	8788490684	Abdulkhalik563698@Gmail.Com						
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4.	Bhagyarathi Rpandey								
5.	**Chetan U. Bopche**	9172484628	**Chetanbopche27@Gmail.Com**						
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7.	Janvi Ashok Kosarkar	8975756916	Janvikosarkar@Gmail.Com						
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10.	Nimish Girish Nawghare	9689378735	Nawgharenimish88@Gmail.Com						
11.	Pawankumar Shivkumar Vishwakarma	7058408869	Pawanvishwakarma67448@Gmail.Com						
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16.	Rahul Ramesh Kawade	9359525716	Kawaderahul042@Gmail.Com						
17.	Renuka Vishal Lande	7719951401	Renukalande220@Gmail.Com						
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20.	Saurav K. Uikey	9356088871	Sauravuikey6@Gmail.Com						
21.	Unnatitai C. Chopde	9022627617	Unnatichopde2002@Gmail.Com						
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23.	Yash Ravindra Khedekar	7020829422	Yashkhedekar5@Gmail.Com						
24	Minal. V. Mahalle	9921941320	minalmahalle75@gmail.com	M. Mahalle	M. Mahalle	M. Mahalle	M. Mahalle	M. Mahalle	
26	Tushar. R. Parihar	7620743746	pariharrtushar13@gmail.com						

27.	Dhogesh K Singh	7385310432	singhq1543@gmail.com	D.Singh	D.Singh	D.Singh	D.Singh		
28.									
29.									
30.									

Name & Signature of Teacher In-Charge

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IQAC Co-ordinator
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Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF ELECTRONICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-4

Sr. No.	Name of the Students	Test-1	Test-2	Test-3	Test-4	TOTAL MARKS	Signature
		Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	ADITYA RAVINDRA SINGH	AB	AB	AB	AB	0	
2.	ANKUSH SAMMA GAWADE	3	3	2	2	10	
3.	BHAGYARATHI RAMVINAY PANDEY	6	8	12	10	36	
4.	DURGESH SINGH	AB	2	0	0	2	
5.	DURGESH TULSIDAS ROKDE	AB	AB	AB	AB	0	
6.	JAY ANILBHAI PATIL	8	10	7	6	31	
7.	MANSI DILIP NANDANWAR	7	10	10	6	33	
8.	NIMISH GIRISH NAWGHARE	AB	0	11	5	16	

9	PRATHAM ANKUSH SITKARE	4	4	0	4	12	
10	RAHUL RAMESH KAWADE	2	8	3	5	18	
11	RENUKA VISHAL LANDE	3	6	8	4	21	Renuka
12	SADHANA MITARAM PARDHI	AB	6	AB	5	11	
13	SAKSHI VINOD KANADE	5	8	5	5	23	
14	SAURAV KOMALPRASAD UIKEY	3	6	4	2	15	
15	TUSHAR PARIHAR	8	11	8	7	34	
16	UNNATITAI CHATRAPAL CHOPDE	10	10	10	8	38	
17	URVASHI SUNILRAO UMATHE	6	8	9	5	28	
18	YASH RAVINDRA KHEDEKAR	4	7	8	4	23	
19.	Sandeep Lotan Gupta					0	

T3

1	AASMIN ABDULKHALIK SHEIKH	9	7	2	0	18	ASheikh.
2	**CHETAN UMASHANKAR BOPCHE**	3	5	8	0	16	C. Bop
3	JANVI ASHOK KOSARKAR	4	6		4	14	Janvi
4	PAWANKUMAR SHIVKUMAR VISHWAKARMA	1	2	8	0	11	Pawa
5	PRAJWAL MULCHAND BHADE	AB	AB	AB	AB	0	
6	PRAKHAR RAJESH BURADKAR	AB	AB	AB	AB	0	Buradkar
7	PRIYANKA SHILANATH SHAH	2	3	0	5	10	Priyanka
8	MINAL MAHALE	6	7	6	0	19	M. Mahalle

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

Bachelor of Science (B.Sc.) Semester—I (C.B.S.)

College Test Examination

CHEMISTRY Paper-1

(Inorganic Chemistry)

Unit I and Unit II

Time : 1 Hour **Maximum Marks : 25**

Q1 a) What is Electron affinity, Discuss factors affecting it and trend in the periodic table. 5

b) What are Quantum numbers? Explain in types with example. 5

OR

c) Discuss wave particle duality of matter. 2.5

d) Calculate effective nuclear charge for 4s electron of Calcium (Z of Calcium = 20). 2.5

e) Write Schrodinger wave equation and state the terms involved in it. 2.5

f) Explain Hund's rule of Maximum multiplicity. 2.5

Q2 a) What is hybridization? Discuss the type of hybridization and geometry in BCl_3. 5

b) Define Lattice energy. Explain how Born-Haber cycle is used to determine Lattice energy of ionic solids. 5

OR

c) Explain directional characteristics of covalent bond. 2.5

d) What is Solvation and Solvation energy? 2.5

e) Write the limitation of Valence bond theory. 2.5

f) Discus hybridization in Ammonia molecule. 2.5

Q3 Short Answer Questions 1 mark each

i) Define electronegativity.

ii) Draw the shape of dz^2 orbital.

iii) Define screening constant.

iv) Define Bond order.

v) Find the number of bp's and lp's in SF_6.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

Bachelor of Science (B.Sc.) Semester—I (C.B.S.)

College Test Examination

CHEMISTRY Paper-1

(Inorganic Chemistry)

Unit III and Unit IV

Time : 1 Hour **Maximum Marks : 25**

Q1	a)	What are S-block elements? Write electronic configuration of S-block elements.	5
	b)	Discuss the structure and bonding in XeF_4 and $XeOF_4$.	5
		OR	
	c)	Explain why Boling point of HF is 19.4 °C where as HCl and HBr have -85 °C and -67.1 °C respectively?	2.5
	d)	Discuss the structure and bonding in $XeOF_4$.	2.5
	e)	Write electronic configuration of IA group elements.	2.5
	f)	Explain reaction of Xenon tetrafluoride with Hydrochloric acid and Hydrogen gas.	2.5
Q2	a)	Write one method of preparation of Marshall's acid. Discuss the structure of Marshall's acid.	5
	b)	What is food Adulteration? Discuss the method to check adulteration.	5
		OR	
	c)	Compare electronegativity of 'p' block elements.	2.5
	d)	What are hydrides? Draw the structure of NH_3.	2.5
	e)	Draw and discuss the structure of P_2O_5.	2.5
	f)	Discus the method to control Food Adulteration.	2.5
Q3		Short Answer Question	1 mark each
	i)	Draw the structure of XeF6.	
	ii)	Explain why H_2O is liquid and H_2S is gas at room temperature.	
	iii)	Draw the structure of H_3PO_4.	
	iv)	Give test for detection of adulteration in Chili powder.	
	v)	Draw the structure of AsH_3.	

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF CHEMISTRY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-7,8,9,10

Sr. No.	Name Of The Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Abhijit S. Raut	9607185579	abhijitraut2737@gmail.com	A.Raut	A.Raut	A.Raut	A.Raut		
2.	Abhishek Thakre	9175026506	abishekthakre8c@gmail.com						
3.	Anish Dubey	7796804835	anishdubeyngp@gmail.com						
4.	Ashwini Nakhate	7744960766	ashwininakhate@gmail.com						
5.	Ayush Hedau	7757932844	ayushhedau012@gmail.com						
6.	Chirag Manmode	9699893977	chiragmanmode@gmail.com	Chirag	Chirag	Chirag	Chirag		
7.	Deepak A.Soni	7410145724	deepak2004soni@gmail.com						
8.	Divyansh Singh	7720035510	neer9465@gmail.com						
9.	Ganesh Waghmare								
10.	Khusbu J. Yadav	9579282117	vijaykishoryadav013@gmail.com						

11.	Namrata R Hundiwale								
12.	Palak J Singh	7249789138	Singhpalak225@gmail.com						
13.	Piyush M Lakshane								
14.	Prajwal P Udan								
15.	Pratik S Thool	7972745562	pratikt23hool@gmail.com						
16.	Rahul R. Bawane								
17.	Rudraksh K. Khurge	7972984523	[illegible]@gmail.com						
18.	Rushikesh D. Dehare	7038202068	Rushidehare9@gmail.com						
19.	Sagar H. Bohane	9359826302	Sagarbohane30@gmail.com						
20.	Sejal V. Dhengale								
21.	Tejas B. Rajurkar								
22.	Vashista Pal	8459523223	vashishtpal5@gmail.com						
23.	Vedant Parkhi	9823223255	vedantparkhi147@gmail.com						
24.	Vikas J. Yadav	7038203436	Vikasyadav06040@gmail.com						
25.	Divyansh Singh	8595985921	Divyanshsinghcpo@gmail.com						
26.									

27.									
28.									
29.									
30.									

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Prof. Pitambar Humane
IQAC Coordinator

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF CHEMISTRY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-11,12

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Akansha S. Tomar	8237507716	akanshatomar@gmail.com	A Tomar.	A Tomar.	A Tomar.	A Tomar.		
2.	Anjali N. Timma				Timma	Timma			
3.	Anjali R. Tiwari	7840223451	at122819@gmail.com	Anjali	Anjali	Anjali	Anjali		
4.	Arish S.Sheikh								
5.	Arti G.Katre	9359584324	laxmikatre2000@gmail.com	Arti	Arti	Arti	Arti		
6.	Ayush S.Dhurve								
7.	Bhumika D. Kurre	7517630283	bhumikakurre71@gmail.com	B Kurre	B Kurre	B Kurre	B Kurre		
8.	Ekta D.Chaudhari	9022804173	chaudharieka7@gmail.com	@chaudhari	@chaudhari	@chaudhari	@chaudhari		
9.	Jamuna S. Pallo				Pallo	Pallo			
10.	Kallyani C. Mojankar	7796048534	kallyanimojankar01@gmail.com	K.C. mojankar	K.C. mojankar				

11.	Kalyani B. Katre	8459277400	katrekalyani02@gmail.com	Kalyani	Kalyani	Kalyani	Kalyani		
12.	Khushboo R. Rahangdale	9322936852	khushboorahangdale@gmail.com	Khushboo	Khushboo	Khushboo	Khushboo		
13.	Khushi S. Tijare	9209295043	khushitijare2020@gmail.com	Khijare	Khijare	Khijare	Khijare		
14.	Lukeshwari M. Shendre	7558321257	manoshendre75@gmail.com	Lukeshwari	Lukeshwari	Lukeshwari	Lukeshwari		
15.	Mayuri M. Tumdam	9309579974	mayutumdam21@gmail.com	Mtumdam	Mtumdam	Mtumdam	Mtumdam		
16.	Minal G. Verulkar	9921602434	minalverulkar25@gmail.com	Minal	Minal	Minal	Minal		
17.	Nisha D. Bavankar								
18.	Piyush P. Dewase	7972600861	Piyushp.Dewase@gmail.com	P.Dewase	P.Dewase	P.Dewase	P.Dewase		
19.	Purva R. Rajput	7498614295	purvarajput04@gmail.com	Rajput	Rajput	Rajput	Rajput		
20.	Riya Y. Agashe	9175017976	riyaagashe87@gmail.com	RAgashe	RAgashe	RAgashe	RAgashe		
21.	Rohan S. Tiwari	7841815908	rt155865@gmail.com	Rohan	Rohan	Rohan	Rohan		
22.	Sanket V. Choudhari	7798413895	sanketchoudhari779@gmail.com	S.V.choudhari	S.V.choudhari	S.V.choudhari	S.V.choudhari		
23.	Suhani O. Bhagat	8999321164	bagatsuhani3@gmail.com	Bhagat	Bhagat	Bhagat	Bhagat		
24.	Suhani R. Raut	7499845351	sumanirraut905@gmail.com	S.Raut	S.Raut	S.Raut	S.Raut		
25.	Tanuj R. Shendre	7822898251	tanujshendre6640@gmail.com	T.R.Shendre	T.R.Shendre	T.R.Shendre	T.R.Shendre		
26.	Trusha S. More	8087293909	Thushamore@gmail.com	Tmore	Tmore	Tmore	Tmore		

27.	Vaishnavi M. Kursange								
28.	Vaishnavi R.Chavan								
29.	Vedant O. Manmode	9330025571	Vedantmanmode1@gmail.com						
30.	Yutihika D. Shevate								
31	Namrata R. Hundiwale	8080305814	namrata@gmail.com	Namrata	Namrata.	Namrata.	Namrata		

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Prof. Pitambar Humane
IQAC Coordinator

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-I
F-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Ayushi P. Chaudhary	7756017460	ayushichaudhari@gmail.com	Chaudhary	Chaudhary	Chaudhary	Chaudhary		
2.	Bhavesh S. Urade	9420892858	bhaveshurade01@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]		
3.	Dipanshu D Golait	9307581773	Dipanshu@gmail.com	D.D.Golait		D.D.Golait			
4.	Divya H Sahare	7498313546	saharedivya86@gmail.com	Divya	Divya	Divya	Divya		
5.	Divyansh A. Raut	7058194691	divyanshraut921@gmail.com	DRaut	DRaut	DRaut	DRaut		
6.	Harsh G. Kale	9356418239	Harshkale538@gmail.com	HKale	HKale	HKale	HKale		
7.	Karuna K.Mehndole	9302710141	mehndolekaruna	Karuna	Karuna	Karuna	Karuna		
8.	Najia S. Sattar Bairam	9921819426	najiyabairam@gmail.com	Najiya	Najiya	Najiya	Najiya		
9.	Pallavi Y.Khawashi	8767544975	Pallavikhawashi04@gmail.com	Pallavi	Pallavi	Pallavi	Pallavi		
10.	Pooja M. Mashakhetri	8669174258	Poojamashakhetri@gmail.com	Mashakhetri	Mashakhetri	Mashakhetri	Mashakhetri		

11.	Prachi R. Gudadhe	9322913742	Prachigudadhe2@gmail.com						
12.	Pragya A. Rai	9421776924	Pragyarai@5424gmail.com	Pragya	Pragya	Pragya	Pragya		
13.	Rasika M. Bandhate	9307416296	rasikabandhate@gmail.com						
14.	Sakshi R. Singh	9356410815	buggusingh2004@gmail.com						
15.	Shivani V.Wakulkar	9322397692	shivaniwakulkar18@gmail	Shivani	Shivani	Shivani	Shivani		
16.	Shriya P. Gahukar	9356946229	shriyagahukar157@gmail.com						
17.	Shruti V. Singh	8390451747	Sakshibxp@gmail.com						
18.	Sonal A. Pardhi	9579875047	Jineshwaripardhi@gmail.com.	Sonal	Sonal	Sonal	Sonal		
19.	Sujal D. Motghare	9834010997	motgharesujal842@gmail.com						
20.	Vipula R.Nadekar	9881066887	nadekarvipula@gmail.com						
21.									
22.									

Name & Signature of Head of the Department

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aishwarya S.Thakre	77220924 0	aishwaryathakre643@gmail.com.	Athakre	Athakre	Athakre	Athakre		
2.	Aniket V. Valukar	9970682144	aniketvalukar@gmail.com	Aniket	Aniket	Aniket	Aniket		
3.	Anushka A. Bhimgade								
4.	Ashwin S.Kashyap								
5.	Atharva A. Astikar	8080704712	atharvaastikaezr@gmail.com	A. A. Astikar	A. A. Astikar	A. A. Astikar	A. A. Astikar		
6.	Dipty A. Zoting								
7.	Divya D. Mankar								
8.	Gaurav D. Gharjale								
9.	Isha D. Rewatkar	7498719275	isharewatkar2005@gmail.com	Rewatkar	Rewatkar	Rewatkar	Rewatkar		
10.	Jayant R. Rohankar								

11.	Jayashri J. Pandit	7387670246	Jayashripandit@gmail.	Pandit	Pandit	Pandit	Pandit		
12.	Jyoti J. Singh								
13.	Kanak H. Vijaywar	9765280017	khvijaywar@gmail.com	khvijay.	khvijay	khvijay..	khvijay.		
14.	Kashish K. Chatur	8208770024	kashishchatur15@gmail.com	Kchatur	Kchatur	Kchatur	Kchatur		
15.	Manalee M. Sirsat	8975246115	manaleesirsat@gmail.com						
16.	Mayur Thakur	8055265379	tsonu1579@gmail.com			Mayu			
17.	Mohd. A. Sheikh								
18.	Nirali V.Budhe	9209020324	nisalibudhe@gmail.com	Nirali.	Nirali.	Nirali.	Nirali.		
19.	Nisha D. Bavankar								
20.	Nisha S. Patle								
21.	Nupur U. Selokar								
22.	Pallavi S.Bijewar								
23.	Payal P. Sontakke	8208615204	Sontakkeprajwal15@gmail.com	Payal	Payal	Payal	Payal		
24.	Prajwal D.Hatwar	8459481067	devendrahatwar5@.	Hatwar	Hatwar	Hatwar	Hatwar		
25.	Pranali Y. Rahangdale	9834535911	Pranalirahangdale83	Pranali	Pranali	Pranali	Pranali		
26.	Priyanka Budharam Kamble	7720011719	asthakamble5@gmail.com	Pkamble	Pkamble	Pkamble	Pkamble		

27.	Priyanka Singh								
28.	Rashmi Anilingole	9975197565	rashmiingole23@gmail.com	R.A.Ingole	R.A.Ingole	R.A.Ingole	R.A.Ingole		
29.	Rohit Arun Lanjewar	9067218946	rohitlanjewar135@gmail.com	Lanjewar	Lanjewar	Lanjewar			
30.	Ruchika Shailesh Undersayare								
31.	Saket Sanjiv Bansod	7775829526	saketbansod358@gmail.com	Bansod	Bansod	Bansod	Bansod		
32	Sakshi Dnyaneshwar Pardhi	9371021319	SakshiPardhi12@gmail.com	Pardhi	Pardhi	Pardhi	Pardhi		
33.	Sapana Prabhashankar Bhagat	7219069387	bhagatsapna676@gmail.com	Bhagat	Bhagat	Bhagat			
34.	Shrushti Khushalji Naik								
35.	Shruti Vijay Shendre								
36.	Siddhi Anand Kitkaru	7666118195	siddhikitkaru@gmail.com	Siddhi	Siddhi	Siddhi	Siddhi		
37.	Sparshika Rajendra Hadke								
38.	Trisha Dhaniram Jamaiwar								
39.	Umesh D Raut	9022507543	umeshraut2003@gmail.com	Raut	Raut	Raut	Raut		
40.	Yogini Sanjayrao Dhole	7058825591	yoginidhole79@gmail.com	Dhole	Dhole	Dhole	Dhole		

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-7,8,9,10

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Abhijit S. Raut	37	32	69	A. Raut
2.	Abhishek Thakre	35	39	74	A Thakre
3.	Anish Dubey	32	36	68	Anish
4.	Ashwini Nakhate	39	31	70	Akhate
5.	Ayush Hedau	33	36	69	Aks
6.	Chirag Manmode	35	38	73	Chirag
7.	Deepak A.Soni	29	38	67	DSoni
8.	Divyansh Singh	31	30	61	Divyansh Singh
9.	Khusbu J. Yadav	33	41	74	Kyadav
10.	Namrata R Hundiwale				Singh
11.	Palak J Singh	38	36	74	
12.	Pratik S Thool	28	33	61	Thool
13.	Rudraksh K. Khurge	41	38	79	RKhurge
14.	Rushikesh D. Dehare	38	35	73	RDehare

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-11,12

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Akansha S. Tomar	38	33	71	A Tomar.
2.	Anjali N. Timma				Ntimma
3.	Anjali R. Tiwari	31	36	67	Anjali
4.	Arish S.Sheikh				
5.	Arti G.Katre	37	26	63	Arti
6.	Ayush S.Dhurve				B Dhurve
7.	Bhumika D. Kurre	26	35	61	Bhumika B Dhurve
8.	Ekta D.Chaudhari	31	28	59	Ekta
9.	Jamuna S. Pallo	24	21	45	Pallo
10.	Kallyani C. Mojankar	27	34	61	K.C.mojankar
11.	Kalyani B. Katre	36	32	68	Kalyani
12.	Khushboo R. Rahangdale	26	29	55	Khushboo
13.	Khushi S. Tijare	31	35	66	K Tijare
14.	Lukeshwari M. Shendre	28	36	64	Lukeshwari

15.	Mayuri M. Tumdam	31	38	69	Tumdam.
16.	Minal G. Verulkar	26	29	55	Minal
17.	Nisha D. Bavankar				
18.	Piyush P. Dewase	34	38	72	P. Dewase
19	Purva R. Rajput	28	31	59	Rajput
20	Riya Y. Agashe	32	27	59	Agashe
21	Rohan S. Tiwari	37	31	68	Rohan
22	Sanket V. Choudhari	35	27	62	S.V.Chaudhari
23	Suhani O. Bhagat	38	25	63	Bhagat
24	Suhani R. Raut	37	32	69	Raut
25	Tanuj R. Shendre	34	36	70	T.R.Shendre
26	Trusha S. More	31	27	58	More.
27	Vaishnavi M. Kursange				
28	Vaishnavi R.Chavan				
29	Vedant O. Manmode	34	21	55	
30	Yutihika D. Shevate				

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-13

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Ayushi P. Chaudhary	28	34	62	
2.	Bhavesh S. Urade	29	37	66	
3.	Dipanshu D Golait	35	32	67	D. D. Golait
4.	Divya H Sahare	28	33	61	Divya
5.	Divyansh A. Raut	27	25	52	
6.	Harsh G. Kale	26	32	58	
7.	Karuna K.Mehndole	35	38	73	
8.	Najia S. Sattar Bairam	37	26	63	
9.	Pallavi Y.Khawashi	31	37	68	
10.	Pooja M. Mashakhetri	32	26	58	
11.	Prachi R. Gudadhe	37	25	62	
12.	Pragya A. Rai	34	28	62	
13.	Rasika M. Bandhate	25	31	56	
14.	Sakshi R. Singh	35	33	68	

15.	Shivani V.Wakulkar	36	27	63	Shivani
16.	Shriya P. Gahukar	33	38	71	Gahukar
17.	Shruti V. Singh	27	35	62	Shruti
18.	Sonal A. Pardhi	37	26	63	Sonal
19	Sujal D. Motghare	34	36	70	Smotghare
20	Vipula R.Nadekar	27	35	62	Vipula

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-I
F-14,15

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1	Aishwarya Satish Thakre	32	29	61	Athakre
2	Aniket Valukar	33	25	58	Aniket
3	Ashwin Shivprasad Kashyap				
4	Atharva Aniruddha Astikar	29	33	62	A.A. Astikar.
5	Dipty Anil Zoting				
6	Divya Mankar				
7	Gaurav Dharmraj Gharjale				
8	Isha Rewatkar	33	21	54	Rewatkar
9	Jayant R. Rohankar				
10	Jayashri J. Pandit	37	32	69	J Pandit
11	Jyoti J. Singh				
12	Kanak H. Vijaywar	35	32	67	khvijiwar
13	Kashish K. Chatur	37	31	68	KKchatur
14	Manalee M. Sirsat	24	35	59	MM.
15	Mayur Sonu Thakur	26	33	59	Slogo

16	Mohd. Azhar Sheikh	22	28	50	
17	Nirali Vilas Budhe	33	28	61	Nirali
18	Nisha Sohanlal Patle				
19	Payal Pramod Sontakke	38	24	62	Payal
20	Prajwal D.Hatwar	31	28	59	Hatwar
21	Pranali Y. Rahangdale	28	32	60	Pranali
22	Priyanka Budharam Kamble	33	35	68	Bkamble
23	Priyanka Singh				
24	Rashmi Anil Ingole	32	27	59	R.A Ingole
25	Rohit Arun Lanjewar	31	32	63	Rlanjewar
26	Saket Sanjiv Bansod	32	28	60	Bansod
27	Sakshi Dnyaneshwar Pardhi	27	31	58	Pardhi
28	Sapana Prabhashankar Bhagat	28	37	65	
29	Shrushti Khushalji Naik				Sapna
30	Siddhi Anand Kitkaru	31	38	69	Siddhi
31	Sparshika Hadke				
32	Trisha Jamaiwar				URaut
33	Umesh Raut	35	31	62	
34	Togini Sanjayrao Dhole	24	31	55	Thoder

Dharampeth M.P. Deo Memorial Science College.

Bachelor of Science (B.Sc.) Semester—III
Unit Test Examination 2023-24
INORGANIC CHEMISTRY
Paper—I (Unit I & II)
(Chemistry)

[Time :90 min] **25 marks**

1. (A) What are interhalogen compounds ? How are they classified ? Discuss the structure of ClF_3 . 5

(B) Draw and explain MO diagram of B_2 and O_2 molecule. Write their MO configuration and calculate bond order. 5

OR

(C) Explain the shape of SF_4 molecule using VSEPR theory. 2½

(D) What are Polyhalides ? Discuss the structure of I_3^- . 2½

(E) Distinguish between bonding and antibonding molecular orbitals. 2½

(F) Draw MO diagram of HF molecule. Explain its polar nature on the basis of MO theory. 2½

2. (A) What are transition elements ? Discuss the first transition series elements with respect to :

(i) Electronic configuration (ii) Complex formation tendency. 5

(B) (i) Discuss 3d series elements with respect to variable oxidation states.

(ii) Give a comparative account of the elements Cr, Mo and W with respect to their magnetic properties. 5

OR

(C) Discuss the colour of first transition series elements. 2½

(D) Calculate spin magnetic moment of Mn^{2+} and Cu^+ ions. 2½

(E) Discuss atomic and ionic radii of 3d series elements. 2½

(F) Write electronic configuration of 4d series elements. 2½

3. Attempt all questions.

(i) Explain why He_2 molecule does not exist in terms of MOT.

(ii) Draw the structure of ICl_4^- ion.

(iii) Write MO configuration of O_2 molecule.

(iv) Give reason, why Zn does not show variable oxidation states.

(v) Define ferromagnetism. 1×5

Dharampeth M.P. Deo Memorial Science College.

Bachelor of Science (B.Sc.) Semester—III
Unit Test Examination 2023-24
INORGANIC CHEMISTRY
Paper—I (Unit III & IV)
(Chemistry)

[Time :90 min]

25 marks

1. (A) What is Lanthanide contraction ? Explain its causes and give any two consequences of Lanthanide contraction.

(B) (i) Discuss the position of Actinides in the periodic table.

(ii) Discuss solvent extraction method for separation of Lanthanides. 5

OR

(C) Explain complex formation tendency of Lanthanides. 2½

(D) Discuss Lanthanides with reference to their electronic configuration. 2½

(E) (i) Give names of any two ores of Lanthanides.

(ii) Explain $La(OH)_3$ is more basic than $Lu(OH)_3$. 2½

(F) Discuss actinides with respect to their oxidation states. 2½

2. (A) Define error. Discuss systematic and random errors. Calculate average and standard deviation of the given set of results obtained by analyst. 32.22, 32.64, 32.52 and 32.46. 5

(B) (i) Explain the principle involved in the estimation of available Nitrogen from the soil.

(ii) Give various steps for rejection of data according to Q-test. 5

OR

C) Explain the terms : (i) Accuracy and (ii) Precision. 2½

(D) Find out the significant figures in the following : (i) 1.602×10^{-19} (ii) 4.00298 (iii) 96500 (iv) 0.00705 (v) 6.023×10^{23} 2½

(E) Define absolute and relative error. 2½

(F)How do you analyse soil for pH, alkalinity & conductivity. 2½

Q3. Attempt all questions.

(i) What are minimum and maximum oxidation states shown by Lanthanides ?

(ii) What is Actinide contraction ?

(iii) Define Accuracy and Precision.

(iv) Define personal error.

(v) What is Nitrogen fixation in soil?

1×5=5

Dharampeth M.P. Deo Memorial Science College

Bachelor of Science (B. Sc.) Semester-III

Unit Test Examination 2023-24

Organic Chemistry

Paper-II(Ch-302) (Unit I & II)

Time: 90 minutes **Total Marks: 25**

Q.1 (A) Explain o, p-directive influence and deactivating nature of chlorine atom in chlorobenzene 5.
(B) Explain the meta directing and and deactivating effect of $-NO_2$ group in Nitrobenzene 5

OR

(C) How does Tolune react with (i) Cl_2 in presence of $FeCl_3$ (ii) Cl_2 sunlight. $2_{1/2}$

(D)Write Ulmann synthesis of Biphenyl and Gomberg reaction for preparation of Biphenyl. $2_{1/2}$
(E) Write a short note on DDT and BHC $2_{1/2}$

(F) How will you convert carbon tetrachloride to (i) phosgene (ii) Freon $2_{1/2}$

Q.2 (A) Discuss the structure and bonding in phenols. How it is obtained from

(i) Cumene (ii) Benzene sulphonic acid (iii) chlorobenzene (iv) Benzene diazonium chloride. 5

(B) What is Reimer-Tiemann Reaction and Fries rearrangement reaction and discuss the maechanism of both the reactions 5

OR

(C) How will you convert phenol to (i) Picric acid (ii) Benzene (iii)Salycilic acid (iv) p-hydroxy benzaldehyde. $2_{1/2}$

(D) Write note on Hauben-Hoesch reaction and Lederer-Manasse reaction $2_{1/2}$

(E) How is glycerol converted into: (i) Acrolein, (ii)Allyl Alcohol (iii) Trinitroglycerine(iv) 1,2,3-trichloro propane? $2_{1/2}$

(F) How will you obtain ethylene glycol form: (i) Ethylene oxide and (ii) Ethylene chloride?

What is action of dilute HNO_3 on: (i) Ethylene glycol and (ii) Phenol $2_{1/2}$

Q.3 Attempt any five questions of the following (each carry 1 marks) 1X5=5

(i) Name any two ortho para directing groups.

(ii) Name any two deactivating groups

(iii) Draw energy profile diagram for SN^1 reaction

(iv) What is spent lye?

(v) Give one example each of monohyadric, dihydric and trihydric alcohols.

(vi) What is Bakelite?

Dharampeth M.P. Deo Memorial Science College

Bachelor of Science (B. Sc.) Semester-III

Unit Test Examination 2023-24

Organic Chemistry

Paper-II(Ch-302) (Unit III & IV)

Time: 90 minutes **Total Marks: 25**

Q.1 (A) Discuss the mechanism of nucleophilic addition reaction to carbonyl group.

How is acetaldehyde and acetone synthesised from acetyl chloride and acetonitrile respectively? 5

(B) Give the mechanism of Aldol Condensation reaction. What is Benzoin condensation? Give its mechanism. 5

OR

(C) Explain Meervin Poundorf Verlay reduction with example. $2_{1/2}$

(D) Write note on Clemmension reduction. $2_{1/2}$

(E) Write note on Wittig reaction. $2_{1/2}$

(F) Explain mechanism of Knowengel reaction. $2_{1/2}$

Q.2 (A) Explain the structure of carboxylate ion. Give reasons for:

(i) Formic acid is a stronger acid than acetic acid and

(ii) Acetic acid is a weaker acid than chloroacetic acid. 5

(B) How is Cinnamic acid is prepared from benzaldehyde? What is the action of acidified potassium permanganate solution on it? 5

OR

(C) What are the advantages and disadvantages of agrochemicals? $2_{1/2}$

(D) Write short notes on insecticides, herbisides, fungisides and rodentisides. $2_{1/2}$

(E) How will you prepare crotonic acid from: (i) Acetaldehyde and (ii) Crotonaldehyde $2_{1/2}$

(F) How Cinnamic acid reacts with: (i)Soda lime (ii) Conc. HNO_3 ? $2_{1/2}$

Q.3 Attempt any five questions of the following (each carry 1 marks) 1X5=5

(i) What is urotropin?

(ii) What is cross aldol condensation?

(iii) What is meant by Mannich base?

(iv) Give the general formula for acid amide and acid anhydride

(v) Write structure and formulae of crotonic acid and cinnamic acid

(vi) What is gammaxene? Give its application.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-7,8,9,10

Sr. No.	Name Of The Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Mrunali Bhilkar	9322727616	MrunaliBhilkar@gmail.com	MBhilkar	MBhilkar	MBhilkar			
2.	Ritika Bhoyar	9834587087	ritikabhoyar28@gmail.com	Bhoyar	Bhoyar	Bhoyar			
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4.	Saurabh Chaudhary	9766341962	schaudhary5599@gma	Schaudhary		Schaudhary			
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7.	Aditya Gosavi								
8.	Nikhil Kumre	8999040961	kumrenikhil17@gmail.com	NKumre	NKumre	NKumre	NKumre		
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10.	Sohel Mansuri								

11.	Anjali Mate								
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13.	Rajesh Meshram								
14.	Suraj Mishra	9730639023	[illegible]@gmail.com						
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29	Ruchi Dwivedi	7620103790	Ruchidwivedi23@gmail.com	Ruchi	Ruchi	Ruchi			
30.	Ashwini Chaudhary	9699792732	chaudharyashwini287@gmail.com	A.R.Chaudhary	A.R.Chaudhary	A.R.Chaudhary	A.R.Chaudhary		
31	Vaishali M. Sahare	9372925403	Vaishalisahare251@gmail.com	Vaishali	Vaishali	Vaishali	Vaishali		

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

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IQAC Coordinator

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Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-III
S-11,12

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aakansha K. Khobragade	7972228707	aakanshakhobragade7@gmail	Aarsh	Aarsh	Aarsh			
2.	Aasiyakhatoon Sabir Hussain	9359259741	hussainaasiya@gmail	Ahussain	Ahussain	Ahussain	Ahussain		
3.	Abhay P. Tembhare	8975363145	abhay230102@gmail.com	Abhay		Abhay	Abhay		
4.	Amisha D. Arkara	7665559171	Arkaraamisha@gmail.com	Amisha	Amisha	Amisha			
5.	Ashlesha R. Khadgi	7820929579	ashleshakhadgi@gmail.com	Ashleshak	Ashlesha	Ashlesha			
6.	Ashwini A. Lanjewar								
7.	Ghanashree U.Dhomane	7774900320	dhomaneghanashree@gmail.com	Ghdhomane	Ghdhomane	Ghdhomane	Ghdhomane		
8.	Gunjan I. Bhoyar	7666799586	gunjanbhoyar02@gmail.com	Gunjan	Gunjan	Gunjan			
9.	Himanshi J. Kalbande	9665301444	kalbandehimanshi@gmail.com	HJ	HJ	HJ	HJ		
10.	Kalyani R. Sindram	8446535023	Sindramkalyani@gmail.com	KS	KS	KS	KS		

11.	Khushi S. Bharti								
12.	Lucky A. Viswakarma	9579660186	lvvishwakarma@2391.mail.com	Dushwak	Dvishwakarma	Dvishwakarma	Dvishwakarma		
13.	Manthan M. Todase	8080870430	manthantodase@gmail.com						
14.	Pranjali L. Meshram	7888080054	pranjalimeshram85@gmail.com	P.L. Meshram	P.L. Meshram	P.L. Meshram	P.L. Meshram		
15.	Priya B. Sharma	8010764549	priyasharma19012004@gmail.com						
16.	Punesh B. Darro								
17.	Rashi R. Satpute	9145486923	rashisatpute77@gmail.com						
18.	Riya R. Rajbhar	8668619305	riyarajbhar@gmail.com						
19.	Rohan H. Meshram	7499955761	meshramrohan353@						
20.	Sakshi S. Choudhary	8766852462	sakshichoudhary122335@gmail.com						
21.	Samyak M. Hadke	7020118104	samyakhadke30@gmail.com						
22.	Sanjana S. Tabhane	9699186571	tabhanesanjana@gmail.com						
23.	Sunaina P.Chichonde	8530970132	Sunainachichonde103@gmail.com						
24.									
25.									
26.									

27.									
28.									
29.									
30.									

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Prof. Pitambar Humane
IQAC Coordinator

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF CHEMISTRY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Anjali R. Thakre	7066554821	thakre anj4381@gmail.com	Anjali	Anjali	Anjali	Anjali		
2.	Anshul Y. Kirnapure	9284067169	anshulkirnapure550@gmai.	Anshul	Anshul	Anshul	Anshul		
3.	Anvay B. Borkar	9168386144	anvayborkar19@gmail.com	Anvay	Anvay	Anvay	Anvay		
4.	Aparna G. Mohare	7020649887	oparnamohare23@gmail.c	Aparna	Aparna	Aparna	Aparna		
5.	Apeksha D.Kotangale	7559455794	apekshakotangale26@gmail.com	Akotangale	Akotangale	Akotangale	Akotangale		
6.	Arya P. Dhoke	9011681628	aryanamrata1331@gmail.com	Aryadhoke	Aryadhoke	Aryadhoke	Aryadhoke		
7.	Komalika S.Choudhari	9322033866	Komalikachaudhari073 @gmail.com	Komalika	Komalika	Komalika	Komalika		
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9.	Nitu B. Rai	7058638984	nitu1419@gmail.com	[illegible]		[illegible]	[illegible]		
10.	Pritam S. Kokode								

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14.	Vanshita D. Vaidya								
15.	Yogita R. Denge	7058437260	yogitadenge@gmail.com						
16.									
17.									
18.									

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Prof. Pitambar Humane
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Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aakansha Y Mairal	8010923662	aakanshamairal@gmail.com	Ymairal	Ymairal	Ymairal	Ymairal		
2.	Anjali K Meshram	8855819748	anjalimeshram2023@gmail.com	Anjali	Anjali	Anjali	Anjali		
3.	Anshul Yadav								
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5.	Dhanshree M. Neware	9359909913	dhanashrineware78@gmail.com	Neware	Neware	Neware	Neware		
6.	Dolly K. Wanjari	9326013213	Krishnawanjari12345@gmail.com	Dolly	Dolly	Dolly	Dolly		
7.	Gauri R. Bhoyar	8668335876	gurjanbhoyar34@gmail.com	Gauri	Gauri	Gauri	Gauri		
8.	Kartika M. Deshmukh	9699720960	Kartikamd.20@gmail.com	Kdeshmukh	Kdeshmukh	Kdeshmukh	Kdeshmukh		
9.	Khushi Rewade								
10.	Krutika S. Pokale	9021533341	Pokalekrutika6@gmail.com	Kpokale	Kpokale	Kpokale	Kpokale		

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13.	Neha L. Wanjari	9373832266	nehawanjari733@gmail.com						
14.	Pranali Y. Chavhare	9699054572	pranalichavhare09@gmail.com						
15.	Pratiksha M. Meshram	8459070338	meshrampratikshar46@gmail.com						
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26.									

27.									
28.									
29.									
30.									

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Prof. Pitambar Humane
IQAC Coordinator

Dr. Akhilesh Peshwe
Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.- III

S-7,8,9,10

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Mrunali Dilip Bhilkar	20	20	40	MBhilkar
2.	Ritika Ravindra Bhoyar	25	12	37	Bhoyar
3.	Pratibha Babarao Bhusari	20	25	45	PBBhusari
4.	Saurabh Suresh Chaudhary	25	24	49	SChaudhary
5.	Pratik Ganpat Dahekar	AB	AB	AB	
6.	Om Suresh Dhurve	20	AB	20	
7.	Aditya Shrawan Gosavi	AB	AB	AB	
8.	Nikhil Ramsingh Kumre	24	24	48	NKumare
9.	Arpita Tarachand Kusram	24	25	49	AKusram
10.	Sohel Kalam Mansuri	AB	AB	AB	
11.	Anjali Narendra Mate	AB	AB	AB	
12.	Nihal Vishal Meshram	10	12	22	N.V. Meshram
13.	Rajesh Yashwant Meshram	AB	AB	AB	
14.	Suraj Munnalal Mishra	20	10	30	

15.	Bhushan Sunil Nagapure	20	22	42	Bnagapure
16.	Ankit Rajkumar Patel	20	25	45	Apatel
17.	Monika Indrabhan Patel	25	16	36	Mpatel
18.	Shivam Umesh Patel	20	21	41	Shivam
19	Shital Omkar Patle	16	14	30	Spatle
20	Tanesh Dhananjay Pendam	10	15	25	T. Pendam
21	Shrutika Gajanan Pise	14	11	25	Spise
22	Khineshwari Pushptode	10	25	35	[illegible]
23	Vivek Santosh Sah	AB	AB	AB	
24	Divya Moreshwar Tagde	14	20	34	[illegible]
25	Tanmay Praful Teware	10	12	22	[illegible]
26	Pawan Gunwant Thakre	10	10	20	P. Thakre
27	Yogita Khemraj Thakre	10	20	30	YThakre
28	Priyanshu Dinesh Yadav	20	30	50	[illegible]
29	Ashwini Raju Choudhary	20	21	41	[illegible]
30	Vaishali Mahesh Sahare	20	15	35	Vakshab
31	Ruchi Premlal Dwivedi	25	26	51	[illegible]

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF CHEMISTRY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.III

S-11,12

Sr. No.	Name of the Students	Test-I		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Aakansha Kamal Khobragade	15	10	25	
2.	Aasiyakhatoon Sabir Hussain	25	30	55	
3.	Abhay Puranlal Tembhare	24	23	47	
4.	Amisha Devraj Arkara	08	07	15	
5.	Ashlesha Rajesh Khadgi	15	10	25	
6.	Ashwini A. Lanjewar	AB	AB	AB	
7.	Ghanashree Uddhav Dhomane	23	27	50	
8.	Gunjan Ishwar Bhoyar	14	13	27	
9.	Himanshi J. Kalbande	10	12	22	
10.	Kalyani R. Sindram	24	11	35	
11.	Khushi Shashikant Bharti	AB	AB		
12.	Lucky A. Viswakarma	34	26	60	
13.	Manthan Mukesh Todase	15	15	30	
14.	Pranjali Liladhar Meshram	20	12	32	
15.	Priya Bhagwan Sharma	37	18	55	

16.	Punesh Bhagatram Darro	AB	AB	AB	
17.	Rashi R. Satpute	25	24	49	
18.	Riya Rajkumar Rajbhar	12	AB	12	
19	Rohan H. Meshram	16	17	33	
20	Sakshi S. Choudhary	10	AB	10	
21	Samyak Madhukar Hadke	10	14	24	
22	Sanjana Suresh Tabhane	12	AB	12	
23	Sunaina Premlal Chichonde	18	16	34	

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.- III

S-13

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	ANJALI THAKRE	22	16	38	Anjali
2.	ANSHUL KIRNAPURE	20	10	30	Anshul
3.	ANVAY BORKAR	22	12	34	
4.	APARNA MOHARE	26	15	41	
5.	APEKSHA KOTANGALE	20	19	39	
6.	ARYA DHOKE	17	10	27	Aryadhoke
7	KOMALIKA CHAUDHARY	20	17	27	Komalika
8	NEETU RAI	37	14	51	Neetu
9	NISHA PANDEY	20	19	39	Nisha
10.	PRITAM KOKADE	AB	AB		
11.	RAVINDRA KHADSE	18	17	25	
12	VAISHNAVI TONGE	16	18	34	Tonge
13	YOGITA DENGE	14	24	38	Dengc.
14	PRIYANSHU RAUT	17	19	36	Raut

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.- III

S-14,15

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Aakansha Yogesh Mairal	29	22	51	Amairal
2.	Anjali Kishor Meshram	10	25	35	Anjali
3.	Anshul Ratanlal Yadav	AB	AB	AB	
4.	Chanchal Kishor Waghwani	31	23	54	chanchal
5.	Dhanshree M. Neware	20	10	30	
6.	Dolly Krushna Wanjari	26	20	46	Dolly
7.	Gauri Ramesh Bhoyar	26	20	46	Gauri
8.	Kartika Mohan Deshmukh	16	30	46	Kartikadeshmukh
9.	Khushi Kamlakar Rewade	AB	AB	AB	
10.	Krutika Subhash Pokale	21	18	39	K.S.pokale
11.	Meenal A. Choudhari	20	12	32	Mchoudhary
12.	Muskan Vinay Kulkarni	20	20	40	
13.	Neha Lakhand Wanjari	25	20	45	N wanjari
14.	Pranali Yashwant Chavhare	17	18	35	Pchavhare

15.	Pratiksha Mangal Meshram	25	20	45	
16.	Ritika R. Sondhiya	20	21	41	
17.	Riya Anil Singh	35	25	60	
18.	Samiksha Ambadas Khobragade	20	24	44	
19	Shreya Ajitkumar Jha	22	25	47	
20	Shruti Surendra Channekar	AB	AB	AB	
21	Siddhi Bhagwat Tiwari	22	22	44	
22	Sonali Gopal Choudhari	15	20	35	
23	Umang Gandhar Warthi	25	25	50	
24	Vaidehi Pawan Thote	25	26	51	
25	Yashshree Ashok Pawar	15	30	45	

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-14,15

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Aditya M. Tiwari	AA	AA	AA	
2.	Aman Dongre	18	18	36	Dongre
3.	Anagha R. Sainis	AA	AA	AA	
4.	Anjali A. Mishra	12	13	25	Anjali
5.	Chhakuli G. Wadikar	AA	AA	AA	
6.	Darshna S. Madavi	21	12	33	Dhrordhi
7.	Dhanshree Y.Newalkar	AA	AA	AA	
8.	Gargi L. Hadge	18	22	40	Gargi
9.	Harsh S. Kodape	12	12	24	Kodape
10.	Jagruti D. Warkar	16	17	33	Jagmakar
11.	Juhi S. Chaudhari	31	21	52	Juhi
12.	Jyoti J. Sharma	AA	AA	AA	
13.	Kalpana D. Suhagpure	AA	AA	AA	
14.	Mansi D. Raut	AA	AA	AA	

15.	Mansi I. Mate	12	13	25	
16.	Niket Yuvraj Thakre	13	13	26	
17.	Pooja S. Itankar	AA	AA	AA	
18.	Prajwal S. Bhoyar	13	13	26	
19	Rohit A. Parate	AA	AA	AA	
20	Rupesh C. Bhokre	20	19	39	
21	Sakshi S. Meshram	22	21	43	
22	Sania Mohd. Anees Raza	12	12	24	
23	Shrawani R.Warkhede	AA	AA	AA	
24	Shreya S.Dhawale	AA	AA	AA	
25	Shubham C. Bisen	AA	AA	AA	
26	Shyamal D. Nasre	12	14	26	
27	Siddharth G. Hirkane	AA	AA	AA	
28	Sumit S. Bandebuche	12	15	27	
29	Surabhi R. Pardhi	AA	AA	AA	
30	Tejas V. Rewade	AA	AA	AA	
31	Tina G. Rahangdale	AA	AA	AA	
32	Twinkal G. Lokhande	AA	AA	AA	
33	Urmila V. Bondre	AA	AA	AA	
34	Vaibhavi Shende	AA	AA	AA	
35	Vaishnavi J. Bedade	14	15	29	

36	Vaishnavi R. Lakhe	AA	AA	AA	
37	Vaishnavi R. Nandpure	AA	AA	AA	
38	Vaishnavi V. Gadge	13	25	38	Vgadge
39	Vedant V. Baxy	AA	AA	AA	

FUNDAMENTALS OF HUM,AN DEVELOPMENT
UNIT TEST –I
SEMESTER -I

Ia..Define Human Development .Discuss the scope of Human Development with the interdisciplinary nature of the Subject. 8

(b)Write in detail about any two family Welfare Programs. 8

OR

(a)Describe the available settings in Human Development . 8

(b) Discuss the need of studying Human Development. Write a note on children with Special needs. 8

2. (a)What is Development? Write on any three Principles of Growth & Development. 8

(b). Family & Culture as factor affecting growth& development 8

OR

(a)What is genetic Endowment? Write a note on Chromosomes and Genes 8

(b)Bronfrenbrener's Ecological theory. 8

Write in Short (any two)

a. Short note on Objectives of ICDS 4
b. Genotype & Phenotype 4
c. There are individual differences in growth & development .Explain 4
d. ~~Balwadi&aanganwadi~~ 4

Difference between growth & development

HD sem-I
02/11/2023

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Wise Test
Date of the Programme : 02/11/2023 – Fundamentals of Human Development
Name of Chief Guest if any :
Name of Guest Speaker if any :

Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
1	Ratna Makhuji Patel	8421968617	patelmakku8@gmail.com	Ratna
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10)	Arpita S. Bhondwe	9579271737		Bhondwe

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FUNDAMENTALS OF HUMAN DEVELOPMENT
UNIT TEST -2
SEMESTER -I

I. (a) Write in detail about conception and Stages of Prenatal Development 8

(b)What are the factors affecting Prenatal Development ? Describe them in detail 8

OR

(a) Write the meaning of Premature baby
Write anote on complications during Pregnancy. note on complications during Pregnancy. 8

(b)Write in details about hazards of Prenatal Period . 8

2(a)Write the Sub Stages of Neonate. Explain the Physical Characterisiic of a neonate 8

(b)Write about the Sensory and Perceptual abilities of Neonate 8

OR

(a) Explain APGAR Scale .Write the role of Immunization 8

(b)Care in Feeding aspects of Neonate 8

3. Write in Short (any two) :-

(a) Adjusment of neonate & factors affecting it 4

(b)Child friendly hospitals 4

(c)Reflexes of Newborn 4

(d) Prematurity 4

Sem I

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test Paper-II Fundamental of Human Development

Date of the Programme : 6/11/023

Name of Chief Guest if any :

Name of Guest Speaker if any :

Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
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Dharampeth Education Society's

DHARAMPETH M.P. DEO MEMORIAL SCIENCECOLLEGE, NAGPUR

Unit Test Examination -2023

B.Sc Of Home Science SEM- I

Fundamental of Textile & clothing

Paper-I

(Time: One Hour **Maximum Marks:40)**

N.B: 1) All Questions are Compulsory and carry equal makes.

2) Draw neat and labeled diagram wherever necessary.

Q1	a	Manufacturing process of cotton fibre	8
	b	Write on general properties of textile fibre	8
		OR	
	c	Manufacturing process of wool fibre	8
	d	Write in detail the scope of textile and importance of clothing	8
Q2	a	Manufacturing process of nylon fiber	8
	b	Properties of rayon fibre	8
		OR	
	c	Write an introduction and use of lyocel and lycra	8
	d	Manufacturing process of polyester	8
Q3		Write in short notes (any two)	
	a	Classification of textile fibre	4
	b	Chemical properties of cotton	4
	c	Scope of textile	4
	d	Chemical properties of nylon	4

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North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test Fundamental of Textile & Clothing

Date of the Programme : 01/11/023

Name of Chief Guest if any :

Name of Guest Speaker if any :

Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
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DHARAMPETH M.P. DEO MEMORIAL SCIENCECOLLEGE, NAGPUR

Unit Test Examination -2023 II

B.Sc Of Home Science SEM- I

Fundamental of Textile & Clothing

Paper-IV

(Time: One Hour **Maximum Marks:40)**

N.B: 1) All Questions are Compulsory and carry equal makes.

2) Draw neat and labeled diagram wherever necessary.

Q1	a	Write factor affecting and clothing.	8
	b	Write about sewing machine and its part.	8
		OR	
	c	Write about measuring tools and cutting tools in garment construction	8
	d	Write about functions and care of sewing machine.	8
Q2	a	General principal of clothing construction	8
	b	Importance of drafting method.	8
		OR	
	c	Process of taking body measurement	8
	d	Explain preparation of plate cutting and stitching of boarder design.	8
Q3		Write in short notes (any two)	
	a	Occupation and fashion	4
	b	Marking tools	4
	c	Climate	4
	d	Care of sewing machine	4

Tex P-2 Sem I

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test II (Fundamental of Textile and clothing

Date of the Programme : 8/11/023

Name of Chief Guest if any :

Name of Guest Speaker if any :

Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
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DHARAMPETH M.P. DEO MEMORIAL SCIENCECOLLEGE, NAGPUR

Unit Test Examination -2023 T-II

B.Sc Of Home Science SEM- I

Family Resource Management

Paper-IV

(Time: One Hour **Maximum Marks:40)**

N.B: 1) All Questions are Compulsory and carry equal makes.

2) Draw neat and labeled diagram wherever necessary.

Q1	a	Explain meaning and definition of interior decoration	8
	b	What material required for decoration	8
		OR	
	c	Interior decoration of bed room	8
	d	Write essential factors in interior decoration	8
Q2	a	Explain definition importance of balance and its types.	8
	b	Write what is rhythm write importance of rhythm and method of obtaining rhythm.	8
		OR	
	c	Write definition and importance of emphasis and application in interior decoration.	8
	d	Define harmony and importance and explain harmony of line and shape.	8
Q3		Write in short notes (any two)	
	a	Definition of proportion	4
	b	Importance of interior decoration	4
	c	Harmony	4
	d	Informal balance	4

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Class Test Fundamental of Family Resource Management.

Date of the Programme : 20/10/023 (Sem I)

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Name of Guest Speaker if any :

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Sem - I

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test II (Fundamental of family Resource Management

Date of the Programme : 6/11/023

Name of Chief Guest if any :

Name of Guest Speaker if any :

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Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Home Science (B.H.Sc.) SEM 1 Examination

Home Science UNIT TEST 1

Fundamentals of Home Science Extension

Paper-V

Time: 1 Hour 30 Minutes] [**Maximum Marks:** 40

N.B: 1) All questions are Compulsory and Carry Equal marks.
2) Draw well-labeled diagrams wherever necessary.

1

a. Define education, and write the concept of education. 8
b. State the principle of extension education. 8

OR

c. Write variations between formal and non-formal education. 8
d. Write the field of extension education and essential links in the chain of rural development. 8

2

a. Define home science and state the objectives of home science. 8
b. State the scope of home science extension. 8

OR

c. Explain the characteristics of home science in colleges and universities. 8
d. Define and write the concept of home science extension education. 8

3 **Answer the following (any 2)**

a. Types of education 4
b. Characteristics of Home Science Extension 4
c. Scope of Home Science 4
d. Meaning of Home Science 4

Sem I
28/10/2023.
Unit Test I.
Extension.

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : SUB - Fundamental of H.Sc. Extension
Date of the Programme : Paper V 28/10/2023 (Saturday)
Name of Chief Guest if any : Unit Test - I.
Name of Guest Speaker if any :

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Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Home Science (B.H.Sc.) SEM 1 Examination

Home Science UNIT TEST 2

Fundamentals of Home Science Extension

Paper-V

Time: 1 Hour 30 Minutes] **[Maximum Marks:** 40

N.B: 1) All questions are Compulsory and Carry Equal marks.
2) Draw well-labeled diagrams wherever necessary.

1

a. Explain the meaning and characteristics of rural society. 8

b. Explain the scope of rural sociology. 8

OR

c. State the importance of the study of rural sociology. 8

d. Explain the Classification of social groups. 8

2

a. Write the meaning and definition of social problems. 8

b. State the problems of tribal and their solution. 8

OR

c. State the meaning and causes of poverty. 8

d. Write the difference between urban and rural social problems. 8

3 **Answer the following questions (Any 2)**

a) Caste tension 4

b) Rural social groups. 4

c) Overpopulation 4

d) Elements of rural sociology in India. 4

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4/11/2023.
U.T. 2

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : B.Sc. (H.Sc) Sem I
Date of the Programme : 4/11/2023 Fundamentals of H.Sc. Extention.
Name of Chief Guest if any : Unit Test - 2 ~~Extention Communication~~ Technique.
Name of Guest Speaker if any :

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Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unit Test Examination I - 2023

Bachelor of Home Science (B.Sc.) SEM- III Examination

Community Nutrition.

Paper-I

Time: One Hour] 30 minutes [**Maximum Marks:**40

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1] a]Define Malnutrition. Write down the causes and symptoms of Malnutrition. 8

b]Nutritional problems due to malnutrition and prevalence of malnutrition in India.8

OR

c]Write down details about the assessment of nutritional status of a person. 8

d]What is biochemical and clinical assessment of a person? 8

Q.2]a]Role of any two national organizations working in the field of community nutrition and health. 8

b]Role of any two international organizations working in the field of community nutrition and health. 8

OR

c]Write down different methods of dietary survey. 8

d]Write down objectives, role and disease prevention strategy of WHO international agency. 8

Q.3] Write in short. (any two)

A] Severe acute malnutrition. 4

B] Diet Survey. 4

C] ICMR . 4

D]Anthropometry. 4

Community Nutrition
28/10/2023.
Sem III
Unit Test - I

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test - I
Date of the Programme : 28/10/2023. (Sem III - Community Nutrition)
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Name of Guest Speaker if any : —

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Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unit Test Examination II - 2023

Bachelor of Home Science (B.Sc.) SEM- III Examination

Community Nutrition.

Paper-I

Time: One Hour] [**Maximum Marks:**40

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1a]What is Nutrition Education? Write down meaning, importance and objectives of nutrition education. 8

b] Write down methods and evaluation of Nutrition Education. 8

OR

c] Write down in details about ICDS and MDM Program. 8

d] Write down in detail about Vitamin A prophylaxis programe and goiter control program. 8

Q.2] a] Write down about problems involved in nutrition education program and how to overcome them.

b]Write down in detail about National Nutrition anemia prophylaxis program.

OR

c] What is Food preservation and the importance of food preservation?

d] What is Food Fermentation and role of microorganisms in food preservation.

Q.3] Write in short. (any two)

A] Radiation.

B] Leavening Agent.

C] Food Additives.

D]ICDS.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Community Nutrition (Unit Test - II) Sem III

Date of the Programme : 4/11/2023

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Date of Exam: 30.10.23

SEMESTER III

DEPARTMENT OF HOME SCIENCE

UNIT TEST - I MAX MKS =40

LATE CHILDHOOD & DEVELOPMENT IN ADOLESCENCE

1a. Discuss the terms change in size,health and importance of physical fitness And nutrition in relation to Late childhood Stage.	08
b. Role of Media in Late childhood	08
Or	
aWhat are the objectives of ECCE. Write a small note on Balwadi and aanganwadi.	08
b.Write about types early childhoodeducation programme	08
2a. Write in detail about language accomplishment during Late childhood.	08
b.Vygotsky Theory	08
or	
a. Stage of concrete operations	08
b. Factors affecting development of creativity	08
Write in brief: (any two)	
a.Emotional regulation	04
b.Self Understanding	04
c.Developmental tasks of Late childhood	04
d. Bilingualism &Multilingualism	04

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Class Test. 1 Development in Late childhood & Adolescent.

Date of the Programme : 30/10/2023

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Name of Guest Speaker if any :

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DHARAMPETH M P DEO MEMORIAL SCIENCE COLLEGE

SEMESTER III

DEPARTMENT OF HOME SCIENCE

UNIT TEST

LATE CHILDHOOD & DEVELOPMENT IN ADOLESCENCE

Ia Define Puberty Stage. Write about the bodily changes of Puberty.

b.Discuss the effect of Pubertal changes. 16

OR

2a.Write in detail about physical & Physiological changes in adolescence.

b.Stage of formal operations 16

Write in brief (any one)

a.Meaning of adolescence 4

b.Sex Education –its importance in adolescence age 4

c.Meaning of Puberty 4

d.Any one theoretical perspective on adolescence. 4

Sem - III.
H.D.

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test Paper II Late Childhood & Adolescent Dev't.

Date of the Programme : 6/11/2023

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Dharampeth M. P. Deo Memorial Science College, Nagpur

B.Sc. (Home Science) Semester—III

TEXTILE AND CLOTHING (TEXTILE DESIGN)

Paper—3

Unit Test - 1

Time: One hour] [Maximum Marks : 40

N.B.: — (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw neat diagrams wherever necessary.

1. (a) Develop design for saree by using geometrical motif. 8

(b) Describe elements of designs in detail with suitable examples. 8

OR

(c) Write in detail about types of motifs from India. 8

(d) Write any two principles of design in detail. 8

2. (a) Describe parts of handloom, and their functions in detail. 8

(b) What are basic weaves? Explain twill weave and its variations. 8

OR

(c) Difference between warp and weft knitting and its advantages and disadvantages. 8

(d) Write about manufacturing process of bonded fabric. 8

3. Write any two

(a) Explain Pile weave. 4

(b) Develop design for bedsheet with floral designs. 4

(c) Types of laces. 4

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : unit Test - 1 sem - III Textile Design

Date of the Programme : 03/11/2023

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B.Sc. (Home Science) Semester—III

TEXTILE AND CLOTHING (TEXTILE DESIGN)

Paper—3

Unit Test - 2

Time: One hour] [Maximum Marks : 40

N.B.: — (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw neat diagrams wherever necessary.

1. (a) What is finishing? Explain in detail about bleaching and calendering. 8

(b) Explain in detail about wrinkle resistance and water proof finish. 8

OR

(c) Write on importance of finishes. 8

(d) Explain singing, sizing, mercerizing finishes in detail. 8

2. (a) Explain in detail Phulkari of Punjab. 8

(b) Explain in detail Kashida of Kashmir. 8

OR

(c) Explain in detail Chamba of Himachal Pradesh. 8

(d) Explain in detail Kasuti of Karnataka. 8

3. Write any two

(a) Singeing finish. 4

(b) Kathiawadi embroidery. 4

(c) Scouring finish. 4

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Name of the Programme : unit Test - 2 sem - III Textile Design

Date of the Programme : 04/11/2023

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Bachelor of Home Science (B.H.Sc.) SEM-III
Unit Test (Unit 1 and Unit 2)
Paper-IV - Housing and Interior Decoration

[Time : 1.5 Hours] **[Maximum Marks: 40]**

N.B. **1) ALL questions are compulsory.**
2) All questions carry equal marks.
3) Draw diagrams wherever necessary

1. a) Write in detail Family Housing Needs **8M**
b) Write in detail factors affecting selection of Site for House **8M**

OR

c) List the principles of House Planning and write in detail about Privacy, Grouping, and Roominess. **8M**
d) Write in detail Concept and Importance of Housing **8M**

2. a) Write in detail Factors affecting House planning **8M**
b) Write in detail Types of Kitchen along with Diagrams **8M**

OR

c) Write in details about Service areas in the house with reference to staircase, Toilet, Dining room and Store room **8M**
d) Write in detail about Living areas with reference to Entrance verandah, Drawing room and living room (draw diagram) **8M**

3. Solve any Four
a) Type of Soil **2M**
b) Hygienic conditions for housing **2M**
c) Practical Convenience **2M**
d) Factors affecting house planning: Size of the family **2M**
e) Factors affecting house planning: Income **2M**

HOUSING AND INTERIOR DECORATION

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : UNIT TEST SEMESTER - 03

Date of the Programme : 01/11/2023 (UNIT 01 and UNIT 02)

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Name of Guest Speaker if any : —

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Dharampeth Education Society's
Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Home Science (B.H.Sc.) SEM-III
Unit Test (Unit 3 and Unit 4)
Paper-IV - Housing and Interior Decoration

[Time : 1.5 Hours] **[Maximum Marks: 40]**

N.B. **1) ALL questions are compulsory.**
2) All questions carry equal marks.
3) Draw diagrams wherever necessary

1. a) Write in detail about style, comfort, utility, cost and durability in selection of furniture. **8M**

b) Draw a well labeled diagram of arrangement of furniture for Bedroom and highlight the circulation in the area. **8M**

OR

c) Write in detail about cane, metal and alloy and Wood as the materials required for construction of furniture. **8M**

d) Draw a well labeled diagram of arrangement of furniture in living room and dining room **8M**

2. a) Write in Brief history of Bonsai, write in details any two four styles of Bonsai (with diagram) **8M**

b) Write the importance of Landscaping and write briefly the materials used for preparing landscape structure. **8M**

OR

c) How lighting in outdoors adds beauty to landscaping **8M**

d) Describe in detail Installation of driveways and walkways in landscape designing along with diagram **8M**

3. Solve any Four

a) Rattan **2M**

b) Bonsai **2M**

c) Storage facility in bedroom **2M**

d) Garden ornaments **2M**

e) Potting and Re-potting **2M**

HOUSING AND INTERIOR DECORATION (UNIT 03 and UNIT 04)

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : UNIT TEST - SEMESTER 03

Date of the Programme : 03/11/2023

Name of Chief Guest if any : –

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Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
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Bachelor of Home Science (B.H.Sc.) SEM 3 Examination

Home Science UNIT TEST 1

Extension Communication techniques

Paper-V

Time: 1 Hour 30 Minutes] [**Maximum Marks:** 40

N.B: 1) All questions are Compulsory and Carry Equal marks.
2) Draw well-labeled diagrams wherever necessary.

Q.1: Answer the following questions.

a. Define extension teaching and the steps involved in extension teaching. 8M

b. Principles of extension teaching. 8M

OR

c. Role of teacher in different levels of teaching. 8M

d. Functions of teaching in extension education. 8M

Q.2: Answer the following questions.

a. Define extension learning and laws of learning. 8M

b. Types of learning and principles of group dynamics. 8M

OR

c. Ideal learning situation to achieve success. 8M

d. Psychological factors in adult learning. 8M

Q. 3 Answer the following (any 2)

a. Extension teaching 4

b. Role of teachers in different levels 4

c. Laws of learning 4

d. Types of Learning 4

Sem III
28/10/2023.
Unit Test - I.
Extension

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : SUB - Extension Communication Technique.
Date of the Programme : Paper V
Name of Chief Guest if any : Unit Test - I
Name of Guest Speaker if any :

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Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Home Science (B.H.Sc.) SEM 3 Examination

Home Science UNIT TEST 2

Extension Communication techniques

Paper-V

Time: 1 Hour 30 Minutes] [**Maximum Marks:** 40

N.B: 1) All questions are Compulsory and Carry Equal marks.
2) Draw well-labeled diagrams wherever necessary.

Q.1: Answer the following questions.

a. Classification of various extension teaching methods. 8M

b. Strong and weak points of interpersonal, group, and mass approach 8M

OR

c. Explain the mass approach to Television and radio. 8M

d. Factors to be considered in selecting and using extension teaching methods. 8M

Q.2: Answer the following questions.

a. Five basic steps of presentation and equipment of campaign work. 8M

b. Selection and use of various teaching aids. 8M

OR

c. State the factors affecting learning. 8M

d. State the principles of learning. 8M

Q.3: Attempt the following questions (any 2)

a. Extension learning. 4M

b. Group approach 4M

c. Importance of extension teaching methods 4M

d. Overhead projector 4M

4/11/2023

Unit Test - 2.

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B.Sc. (H.Sc) Sem III Extension Communication Technique

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Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unit Test Examination II - 2023

Bachelor of Home Science (B.Sc.) SEM- V Examination

Diet Therapy

Paper-I

Time: One Hour] [**Maximum Marks:**40

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1 a] Define Underweight and dietary management of Underweight. 8
b] Write down causes of Ulcer and dietary management of Ulcer. 8

OR

c] Write down Types of Ulcer and dietary management of Ulcer. 8
d] Define Diarrhea and discuss dietary management of Diarrhea. 8

Q.4] a] Define Diarrhea and discuss about causes, dietary management of Diarrhea. 8
b] What is Cholecystitis? Write in detail about its dietary management. 8

OR

c] What is Viral Hepatitis? Write in detail about its dietary management. 8
d] What is Cirrhosis of liver? Write in detail about its dietary management. 8

Q.5] Write in short. (any two)
A] Functions of the Liver. 4
B] Constipation. 4
C] Functions of Gall Bladder. 4
D] Soft Diet. 4

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test II (Diet Therapy) Sem V

Date of the Programme : 6/11/2023.

Name of Chief Guest if any :

Name of Guest Speaker if any :

Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
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Dharampeth Education Society's
Dharampeth M. P. Deo Memorial Science College, Nagpur
Unit Test Examination I - 2023
Bachelor of Home Science (B.Sc.) SEM- V Examination
Diet Therapy
Paper-I

Time: One Hour] [**Maximum Marks:**40

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1] a] What do mean by Therapeutic Diets? Write in detail about any five types of Diet. 8

b] Write in detail about the principles of Diet Therapy and the role of dietitians in health care. 8

OR

c] Discuss the role of dietitians in hospitals and the importance of dietitians in hospital.8

d] Write in detail about the role of diet counseling in patient care. 8

Q.2] a] Write down causes of Obesity and dietary management of Obesity. 8

b] Write down Types of Obesity and dietary management of Obesity. 8

OR

a]Write in detail about the complications of Obesity and the role of exercise in reducing your weight. 8

b] Write down causes of Underweight and dietary management of Underweight. 8

Q.3] Write in short. (any two)

A] Soft Diet. 4
B] Define Overweight. 4
C] Parenteral Feeding. 4
D] Role of Exercise. 4

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test - I (Diet Therapy) . Sem V

Date of the Programme : 31/10/2023.

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DEPARTMENT OF HOME SCIENCE

SEMESTER-V (Mrks 40)

UNIT TEST -1

FAMILY DYNAMICS & DEVELOPMENTAL ASSESSMENT

I.a .Define marriage. .Write the Goals and rituals in marriage. 08

b Write about the concept of physiological readiness & Social readiness in marriage 08

Or

Ia. Write about the concept of Social & economic readiness in marriage . 08

b. Write about Premarital Counselling. 08

2a.Define Family. Discuss the functions of Family.Write a note on Joint Family 08

b. Discribe the influence of different disciplinary patterns in child development. 08

Or

2a.What is meant by Family Crisis.Explain in detail any four crisis situation in family 08

b. Explain the concept of family life cycle with its importance. Write the developmental tasks of establishing stage of family 08

Write in Short ::(Any two)

1a Exogamy & Endogamy 04

b.Influence of Maternal Deprivation on child development. 04

c.Factors affecting mate Selection 04

d. Hierarchy of Dominance 04

Sem - 5 - th
HD.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,

North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Class Test - I

Date of the Programme : 2/11/2023 – Family Dynamics & Deve. Assessment

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sem-5th
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Name of the Programme : Class Test - II

Date of the Programme : 3/11/2023 - Family Dynamics & Deve. Assessment

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B.Sc. Home Science (Semester—V)

TEXTILE AND CLOTHING (ADVANCED PATTERN MAKING)

Paper—3

Unit Test – 1

Time : Three Hours] [Maximum Marks : 80

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. (a) Explain flat pattern method in detail. 8

(b) Explain Draping method in detail. 8

OR

(c) Write in detail slash and spread method of dart manipulation. 8

(d) write the definition and types of darts. 8

2. (a) Explain balance and emphasis principles of design. 8

(b) Explain elements of design in detail with suitable examples. 8

OR

(c) Explain bust and waist fitting problem and their remedies. 8

(d) Write in detail principles of fit. 8

3. Write any two

(a) Write harmony principle of design. 4

(b) Drafting method. 4

(c) Terminology of Dart. 4

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DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : Unit Test Sem-V (unit. 1 & 2)(Advanced Pattern making)

Date of the Programme : 01/11/2023

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Science College, Nagpur.

Dharampeth M. P. Deo Memorial Science College, Nagpur

B.Sc. Home Science (Semester—V)

TEXTILE AND CLOTHING (ADVANCED PATTERN MAKING)

Paper—3

Unit test - 2.

Time : One Hours] [Maximum Marks : 40

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. (a) Explain different methods of grading pattern. 8

(b) Explain front of Pattern Envelop in detail. 8

OR

(c) Write the helpful markings on pattern in detail. 8

(d) Define layout and explain its importance and principles in detail 8

2. (a) Write about pleated and flared skirt. 8

(b) Write about puff sleeve and bell sleeve 8

OR

(c) Explain Peter Pan and Sailor collar. 8

(d) Explain collar terms and write about mandarin and shirt collar. 8

3. Write any two

(a) Circular skirt. 4

(b) Leg-o-mutton sleeve. 4

(c) Types of layout. 4

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : unit Test - 2 sem - V - (Advanced pattern making) unit - 3-4

Date of the Programme : 02/11/2023

Name of Chief Guest if any : Ashwini Lambat.

Name of Guest Speaker if any :

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7)	Vaishnavi K. Pradhan	9763169560	Pradhanvaishnavi155@gmail.com	Pradhan
8)	Pallavi Balram Katre	8459277408	Pkatre573@gmail.com	Pallavi
9	Pranali Chongyedkar	9309079427	Pranu02.cgn@	Pranali
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Signature of:

Programme In-charge

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Principal

Principal
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Science College, Nagpur.

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Dharampeth Education Society's
Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Home Science (B.H.Sc.) SEM-V
Unit Test (Unit 1 and Unit 2)
Paper-IV - Resource Management- I

[Time : 1.5 Hours] **[Maximum Marks: 40]**

N.B.
1) **ALL questions are compulsory.**
2) **All questions carry equal marks.**
3) **Draw diagrams wherever necessary**

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1. a) Write in detail about the Management Process. **8M**
   b) Write in detail about the types of Feedback in Management Process. **8M**

   OR

   c) What is planning and write about various types of planning with suitable examples. **8M**
   d) Write in detail about any five Principles of Management. **8M**

2. a) Classify the resources with suitable examples. **8M**
   b) Write in detail Characteristics of Resources. **8M**

   OR

   c) Classify the resources with suitable examples. **8M**
   d) Write in detail Factors affecting Family Resources. **8M**

3. **Solve any Four**
   a) Operational Planning **2M**
   b) Unity of Direction **2M**
   c) Non-Human Resources **2M**
   d) Fair remuneration **2M**
   e) Methods of evaluation **2M**

Resource Management - I

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North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : UNIT TEST - SEMESTER V (UNIT 1 & UNIT 2)

Date of the Programme : 30/10/2023

Name of Chief Guest if any : —

Name of Guest Speaker if any : —

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Signature of:

Chaphale
Programme In-charge
(Avani Chaphale)

Patkar
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Principal
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Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
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DATA VALIDATION & VERIFICATION (DVV)

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Dharampeth Education Society's
Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Home Science (B.H.Sc.) SEM-V
Unit Test (Unit 3 and Unit 4)
Paper-IV - Resource Management- I

[Time : 1.5 Hours] **[Maximum Marks: 40]**

N.B.
1) **ALL questions are compulsory.**
2) **All questions carry equal marks.**
3) **Draw diagrams wherever necessary**

---

1. a) Write in detail about role and scope of decision making process with suitable examples. **8M**

b) Write about the factor affecting decision making. **8M**

OR

c) Write in detail about individual decision and group decision. **8M**

d) Explain the process of decision making with suitable examples. **8M**

2. a) Write in details Process of Managing Time with the help of an example. **8M**

b) Explain the concept Leisure – Meaning and Importance and Activities **8M**

OR

c) Define Time Management? Write in detail the Nature and Importance of Time **8M**

d) Write in details the tools of Time Management along with suitable diagrams. **8M**

3. **Solve any Four**

a) Habitual and Intellectual Decisions **2M**

b) Peak Load **2M**

c) Rest and Sleep Periods **2M**

d) Leisure **2M**

e) Work Curves **2M**

Resource Management -I

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : UNIT TEST - SEMESTER V (UNIT 3 & UNIT 4)

Date of the Programme : 01/11/2023

Name of Chief Guest if any : —

Name of Guest Speaker if any : —

Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
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Programme In-charge
(Avanti Chapmale)

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Signature of:
Programme In-charge

IQAC Coordinator
IQAC Coordinator

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Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Home Science (B.H.Sc.) SEM 5 Examination

Home Science UNIT TEST 1

Programme Planning and Building in Extension

Paper-V

Time: 1 Hour 30 Minutes] **[Maximum Marks:** 40

N.B. 1) All questions are Compulsory and Carry Equal marks.
2) Draw well-labeled diagrams wherever necessary.

Q.1: Answer the following questions.

a. State the Characteristics of the programme planning process. 8

b. Explain the Steps in the programme planning process. 8

OR

c. Describe the Professional abilities needed by programme planners. 8

d. Discuss the Principles of programme planning. 8

Q.2: Answer the following questions.

a. State the concept of Community organization. 8

b. Explain the Principles of Community Organization. 8

OR

c. Explain the SMCRE model. 8

d. Define innovation and explain the characteristics of innovation. 8

Q. 3 Answer the following (any 2)

a. Rate of adoption. 4

b. Innovation. 4

c. Importance of extension programme. 4

d. Community organization. 4

Sem V

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

DATA VALIDATION & VERIFICATION (DVV)

Name of the Programme : SUB - Programme planning & Building in Extension
Date of the Programme :
Name of Chief Guest if any : Paper V Unit Test - I
Name of Guest Speaker if any :

Sr. No.	Name of the Participant	Mobile Number	E-mail Id	Signature
1	Vaishnavi K. Pradhan	9763169560	pradhanvaishnavi455@gmail.com	
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Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Home Science (B.H.Sc.) SEM 5 Examination

Home Science UNIT TEST 2

Programme Planning and Building in Extension

Paper-V

Time: 1 Hour 30 Minutes] [**Maximum Marks:** 40

N.B: 1) All questions are Compulsory and Carry Equal marks.
2) Draw well-labeled diagrams wherever necessary.

Q.1: Answer the following questions.

a. Describe the Stages involved in the adoption process. 8

b. State the characteristics of adopters. 8

OR

c. Write the Sources of information regarding communication media. 8

d. Explain the Important factors related to the adoption of practices. 8

Q.2: Answer the following questions.

a. Define groups and occasions of group association. 8

b. Elaborate on the Principles of working with groups. 8

OR

c. Describe the meaning and traits of the change agent. 8

d. Discuss the Role of change agents working towards ensuring change. 8

Q. 3 Answer the following (any 2)

a. Role of change agent 4

b. Definition of groups. 4

c. Rate of adoption. 4

d. Characteristics of adopters. 4

Unit Test - 2 4/11/23 (Saturday)

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
North Ambazari Road, Near Ambazari Lake, Nagpur- 440033

B.SC (H&C) Sem V Extension prog planning & Building in extension

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSORY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-1

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
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4.	TUSHAR VASUDEO MANERAO	8788771765	Tushermanerao444@gmail.com			20	24		
5.	GIRENDRA KANHAIYALAL CHAUDHARY	7972882455	girendra9c8@gmail.com			14	23		
6.	SUMIT RAMBABU MAHATO	7980929105	sumitmahato@gmail.com			20	21		
7.									

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IQAC Co-ordinator
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Science College, Nagpur-440033

Principal
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Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSORY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-2

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	~~Paper-II~~ Marks Unit-I & II	~~Paper-II~~ Marks Unit-III & IV		
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14.	PUJA DHARMENDRA BELDAR	8788540362	Pujabeldar169@gmail.com			21	16		
15.	PURVA DILIP ZINGRE								
16.	REVATI PRAKASH BONDE								
17.	RITIKA SATISH AMTE								
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28.									
29.									
30.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

PROF. PITAMBAR T. HUMANE
IQAC Co-ordinator
Dharampeth M.P. Deo Memorial
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Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSORY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-3

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
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3.	ROHIT MANOHAR PATIL	9322473882	PatilRohit0208@gmail.Com			17	20		
4.	SHREYANSH RAVINDRA SATPUTE	7498796164	shreyanshsatpute@gmail.com			15	20		
5.	VEDANT DNYANESHWAR MOHANKAR								
6.									
7.									
8.									

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Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
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5.	VEDANT DNYANESHWAR MOHANKAR								
6.									
7.									
8.									

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DEPARTMENT OF COMPULSARY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-4

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
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6.	HIMANSHU PRAKASH RAUT	9075466951	rautHimanshu53@gmail.com	HRaut	HRaut	20	18		
7.	NAINA YUVRAJ FUKAT	9890430873	nainafukat10@gmail.com	Nfukat	Nfukat	19	22		
8.	NILESH GOPAL DHONE	9022926583	dhonegopal1@gmail.com	N.G. Dhone	N.G. Dhone	20	24		

9.	PRANALI RAJESH SHENDE	9022420387	pranalishende0413@gmail.com	P.R.Shende	P.R.Shende	20	18		
10.	PREETI RAMPRASAD BISEN	8805787004	bisenpriti9@gmail.com	PBisen	PBisen	21	15		
11.	PRIYAL AJAYRAO SURJUSE	8552914064	Priyalsurjuse17@gmail.com	Priyal	Priyal	19	25		
12.	PRIYANKA MANOHAR NAGDEVE	9325655396	Priyanshukhobe2003@gmail.com	P.B.Khobe	P.B.Khobe	25	18		
13.	PRIYANSHU BABARAO KHOBE	8806131018	mangalanagdeve01@gmail.com	Nagdeve	Nagdeve	23	20		
14.	ROHIT VINODKUMAR KALLO								
15.	RUTUJA SANTOSH WANARE	9579405707	rutujawanare03@gmail.com	Wanare	Wanare	15	23		
16.	SATYAM DEEPAK CHATURVEDI	9699222858	satyamchaturvedi961@gmail.com	Satyam	Satyam	14	20		
17.	SEJAL DILIP CHICHMALKAR	8080070250	sejalchichmalkar@gmail.com	Sejal	Sejal	18	16		
18.	SHRUSHTI MAHENDRA PANDAV	9699246860	Shrushtipandav2000@gmail.com	Pandav	Pandav	15	18		
19.	SOHAM ABHAY KELKAR	9699521252	~~Sohamkelkar~~ sohamabhaykelkar@gmail.com	Sk	Sk	22	20		
20.	TEJAS SUNIL MESHRAM	9689722354	tejasmeshram1906@gmail.com	Tejas	Tejas	24	23		
21.	UJWALA SHIVSHANKAR NEWARE	9373682780	Ujwalaneware072@gmail.com	Neware	Neware	20	21		

22.	UMA BASANT TEMBHARE	7057700836	umatembhare[illegible]3@gmail.com			20	21		
23.	VAIBHAV DHOLE	8459299447	vaibhavdhole3026@gmail.com	Dhole	Dhole	15	18		
24.	VIVEK BECHAN YADAV	9834691718	VY8680020@gmail.com	Vivek	Vivek	16	22		
25.	YASHASWI PRABHAKAR BIJWE	8999562882	yashaswibijwe27@gmail.com			19	25		
26.									
27.									
28.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator
PROF. PITAMBAR T. HUMANE
IQAC Co-ordinator
Dharampeth M.P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSARY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-5

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III & IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Rem: if a
1.	PRERNA SANTOSHKUMAR SINGH	6299619449	Prernasingh30@gmail.com	Prerna	Prerna	19	25		
2.	TANUSHREE BHALCHANDRA DANGARE	8767922353	tanushreedangare@gmail.com	Dangare	Dangare	20	18		
3.	PRATIKSHA MANOHAR UIKEY								
4.	PALLAVI PRAKASHRAO MATHANE	8975207921	Pmmathane123@gmail.com	Pallavi	Pallavi	20	20		
5.	PALAK RANJEETNARAYAN PANDE	8421388291	pande2005palak@gmail.com	Palak	Palak	22	19		
6.	SHASHIKANT GAJENDRA BANGADKAR	9767779682	Shashikantbangadkar37@gmail.com			16	23		
7.	DIVYANI VIJAY THOSAR	9309927883	divyanithosar93@gmail.com	Divyani	Divyani	25	15		
8.	VAIDEHI SANJAY MESHRAM	9561939026	vaidehi011106@gmail.com	Vaidehi	Vaidehi	18	20		
9.	SHARWARI RAJESH SAHASTRABUDDHE	8830447619	Sharvarisahastrabuddhe@gmail.com	Sharwari	Sharwari	23	25		

10.	SHEJAL PRALHAD DHALE	8421000725	shejaldhale2@gmail.com	shejal	shejal	21	21		
11.	MOHIT JAYLAL BHUJADE	8007387931	bhujademohit8@gmail.com	Mbhujade	Mbhujade	20	16		
12.	MEGHA SAMIR MANNA	7028312979	meghamanna148@gmail.com	Megha	Megha	18	23		
13.	SHUBHAM SURENDRA KUSHWAHA	7304939893	Shubhamkushwaha7304@gmail.com	S. Kush	S. Kush	16	16		
14.	SUHANI RAJESH CHAUBEY	8263951682	rchaubey500@gmail.com	Schaubey	Schaubey	15	23		
15.	AMAN NIRANJAN BUNDE								
16.	MAYURI ANIL KALE	9307540160	mayurikale868@gmail.com	Mkale	Mkale	21	25		
17.	AKSHAD SANJAY THAKARE	9021388974	akshadthakare039@gamil.com	Ate	At	15	20		
18.	NEERAJ RAMNIVAJ VISHWAKARMA	7840904511	Neerajvishwakarma913800@gmail.com	Neeraj	Neeraj	16	23		
19.	NANDINI RAMKRUSHNA KALBHUT	8262091424	ramkrushnakalbhut@gmail.com	N.R. Kalbhut	N.R. Kalbhut	19	21		
20.	PALAK PAWAN JAWADE	9021238845	Palakjawade7@gmail.com	Pjawade	Pjawade	20	16		
21.	ARPIT ARVIND GAJBHIYE	8799827374	arpitgajbhiye229@gmail.com	Arpit	Arpit	23	15		
22.	MANDAR DILIP VYAWAHARE	9021933086	vyawaharemandar19@gmail.com	Mjawahare	Mjawahare	25	17		
23.	LEKHRAJ PRUTHVIRAJ WAGDE								
24.	AMAN DILIP KUMAR	7757892215	amankumar42266k@gmail.com	Aman	Aman	18	20		
26.	RAVISHANKAR YADAV ZADE	9356213140	2ravi12825@gmail.com	Rzade	Rzade	21	18		
27.	PALAK RANJEETNARAYAN PANDE								
28.	GANESH ISHWAR WAGHMARE	7249532051	ganeshwaghmare@gmail.com	Ganesh	Ganesh	17	20		
29.	MANALI DILIP DHARAPURE	9284227616	manalidharapure@gmail.com	Manali	Manali	18	25		

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IQAC Co-ordinator
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Principal
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Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSARY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-7,8,9,10

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	ABHIJIT SHYAMKISHOR RAUT	9607185579	abhijitraut2737@gmail.com	A. Raut	A. Raut	18	21		
2.	ABHISHEK AMOL THAKRE	9175020506	abishek thakre 08 gmail.com	A. Thakre	A. Thakre	20	24		
3.	ANISH HARENDRA DUBEY	7796804835	anishdubergp@gmail.com	Anish	Anish	15	18		
4.	ASHWINI PRAKASH NAKHATE	7744960760	ashwini.nakhate31@gmail.com.	Ashwini	Ashwini	16	20		
5.	AYUSH HEDAU	7757932699	ayushhedau012@gmail.com.	Ayush	Ayush	17	17		
6.	CHIRAG BHOJRAJ MANMODE	9699893977	chiragmanmode@gmail.com	Chirag	Chirag	20	16		
7.	DEEPAK AKSHAYKUMAR SONI	7410145724	dipak2004soni@gmail.com	Soni.	Soni.	22	19		
8.	DIVYANSH SINGH								
9.	GANESH ISHWAR WAGHMARE								

10.	KHUSBU JAYKISHOR YADAV	9579282717	yjoykishor013@gmail.com			23	20		
11.	NAMRATA RAJESH HUNDIWALE								
12.	PALAK JITENDRA SINGH	7249789138	Singhmon44861@gmail.com			18	20		
13.	PIYUSH MAROTI LAKSHANE								
14.	PRAJWAL PRAKASH UDAN								
15.	PRATIK SURENDRA THOOL	7972745582	pratik123h001@gmail.com			16	19		
16.	RAHUL RAJU BAWANE								
17.	RUDRAKSH KISHOR KHURGE	7972984523	Khurgerudra05@gmail.com			19	21		
18.	RUSHIKESH DEVIDAS DEHARE	7038202068	Rishidehare9@gmail.com			14	16		
19.	SAGAR HEMRAJ BOHANE	9359326302	Sagarbohane80@gmail.			22	18		
20.	SEJAL VILAS DHENGALE								
21.	TEJAS BABARAO RAJURKAR								
22.	VASHISTA PAL	8459523223	vashishtpal5@gmail.com			23	20		
23.	VEDANT GAJANAN PARKHI								
24.	VIKAS JAGDAMBA YADAV								

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IQAC Co-ordinator
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Science College, Nagpur-440033

Principal
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Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSARY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-11,12

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Akansha Santosh Tomar	8237507716	akanshatomar2020@gmail.com	A Tomar	A Tomar	20	21		
2.	Anjali Narendra Timma			Timma	Timma	15	20		
3.	Anjali Rajenraprasad Tiwari	7804023451	ar7228l@gmail.com	Anjali	Anjali	25	23		
4.	Arish Shabbir Sheikh								
5.	Arti Ganesh Katre	9359584324	laxmikatrx2000@gmail.com	Arti	Arti	22	22		
6.	Ayush Suresh Dhurve								
7.	Bhumika Dewadas Kurre	7517030283	bhumikakurre71@gmail.com	Bkurre	Bkurre	16	19		
8.	Ekta Dipak Chaudhari	9022804173	Chaudhariekta7@gmail.com	Pallo	Chaudhari	18	22		
9.	Jamuna Soma Pallo	9405367042	Jumunapallo123@gmail.com	Pallo	Pallo	15	21		
10.	Kallyani Chinduji Mojankar								

11.	Kalyani Balram Katre	8459277402	Katrekalyani02@gmail.com	Kalyani	Kalyani	17	16		
12.	Khushboo Rajendra Rahangdale	9322336852	khushbooraharngdale6@gmail.com	Khushboo	Khushboo	22	20		
13.	Khushi Surajbhan Tijare	9209295043	khushitijare2020@gmail.com	Tijare	Tijare	14	16		
14.	Lukeshwari Maroti Shendre	7558321257	marotishendre728@gmail.com	Lukeshwari	Lukeshwari	18	22		
15.	Mayuri Maroti Tumdam	9309579974	mayutumdam21@gmail.com	Tumdam	Tumdam	23	19		
16.	Minal Gajanan Verulkar	9921602434	minalverulkar28@gmail.com	Minal	Minal	20	21		
17.	Nisha Dhansingh Bavankar								
18.	Piyush Premraj Dewase	7972600561	Piyushdewase@gmil.com	P.Dewase	P.Dewase	22	16		
19.	Purva Ranjitsingh Rajput	7498642985	Purvarajput04@gmail.com	Rajput	Rajput	15	18		
20.	Riya Yogesh Agashe	9175017976	riyaagashe87@gmail.com	Agashe	Agashe	19	22		
21.	Rohan Surjitkumar Tiwari	7541815908	rt0155865@gmail.com	Rohan	Rohan	18	20		
22.	Sanket Vijay Choudhari	7798413895	Sanketchoudhari779@gmail.com	S.V.choudhari	S.V.choudhari	21	16		
23.	Suhani Onkar Bhagat	8999321164	bhagatsuhani3@gmail.com	Bhagat	Bhagat	23	18		
24.	Suhani Ravindra Raut	7499845381	suhaniraut958@gmail.com	Raut	Raut	14	23		
25.	Tanuj Ramesh Shendre	7822898251	tanujshendre64@gmail.com	T.R.Shendre	T.R.Shendre	25	15		
26.	Trusha Sharad More	8087293904	Trushamore817@gmail.com	More	More	16	20		

27	Vaishnavi Mahesh Kursange								
28	Vaishnavi Rajesh Chavan								
29	Vedant Omprakash Manmode	9309025571	vedantmanmode1@gmail.com			18	20		
30	Yutihika Dinesh Shevate								
31	Namrata Hundiwale	8080305814	namratahundiwale@gmail.com			20	16		

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

PROF. PITAMBAR T. HUMANE
IQAC Co-ordinator
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Science College, Nagpur-440033

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSARY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Ayushi Prakash Chaudhary	7756017460	ayushichaudhri@gmail.com	Chaudhary	Chaudhary	18	21		
2.	Bhavesh Suresh Urade	9420892856	bhaveshurade01@gmail.com	[illegible]	[illegible]	20	21		
3.	Dipanshu Deepak Golait								
4.	Divya Homchand Sahare	7498313546	saharedivya86@gmail.com	Divya	Divya	23	18		
5.	Divyansh Asok Raut	7058194691	divyanshraut921@gmail.com	Raut	Raut	18	24		
6.	Harsh Ganesh Kale	9356482390	harshkale638@gmail.com	Kale	Kale	18	18		
7.	Karuna Kewalramni Mehndole	9302710146	mehndolekaruna@	Karuna	Karuna	22	16		
8.	Najia Sheikhnoor Sattar Bairam	9921819426	navivabairam@gmail.com	Najia	Najia	21	23		

9.	Pallavi Yogiraj Khawashi	8767544975	Pallavikhawasi04@gmail.com	Pallavi.	Pallavi.	24	20		
10.	Pooja Manik Mashakhetri	8669174258	Poojamashakhetri@gmail.com	Pmashakhetri	Pmashakhetri	18	22		
11.	Prachi Ravindra Gudadhe	9322913742	Prachigudadhe21@gmail.com	[illegible]	[illegible]	17	24		
12.	Pragya Alok Rai	9421776924	Pragyarai5424@gmail.com	Pragya.	Pragya.	16	20		
13.	Rasika Mahipal Bandhate	9307416296	rasikabandhate@gmail.com	Rasika	Rasika	15	21		
14.	Sakshi Rajesh Singh	9356410815	saggusingh2004@gmail.com	Sing	Sing	22	16		
15.	Shivani Vijay Wakulkar	9322397692	shivaniwakulkar18@gmail.com	Shivani	Shivani	25	15		
16.	Shriya Pradip Gahukar	9356946229	shriyagahukar157@gmail.com	Shriya	Shriya	20	24		
17.	Shruti Vijay Singh	8390451747	sakshikp@gmail.com	Shruti	Shruti	18	20		
18.	Sonal Ambadas Pardhi	9579875047	Jineshwaripardhi@gmail.com	Sonal	Sonal	21	15		
19.	Sujal Digambar Motghare	9534010997	motghare.sujal842@gmail.com	Smotghare	Smotghare	19	18		
20.	Vipula Raju Nadekar	9881066887	nadekarvipala@gmail.com	Vipula	Vipula	23	19		
21.									
22.									
23.									
24.									

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Science College, Nagpur-440033

Principal
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Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPULSARY ENGLISH
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aishwarya Satish Thakre	7722092402	aishwaryathakre643@gmail.com	Athakre	Athakre	19	20		
2.	Aniket Vijay Valukar	9970682164	aniketvalukar@gmail.com	Aniket	Aniket	18	22		
3.	Anushka Ashok Bhimgade								
4.	Ashwin Shivprasad Kashyap								
5.	Atharva Aniruddha Astikar	8080709712	atharvaastikar21@gmail.com	A.A. Astikar	A. A. Astikar	16	24		
6.	Dipty Anil Zoting								
7.	Divya Dumdeo Mankar								
8.	Gaurav Dharmraj Gharjale								
9.	Isha Devidas Rewatkar	7498719275	isharewatkar2005@gmail.com	Rewatkar	Rewatkar	20	15		
10.	Jayant Ravindra Rohankar								

11.	Jayashri Jaykishor Pandit	7387670246	Jayashripandit13s@gmail	Pandit	Pandit	20	15		
12.	Jyoti Jayprakash Singh								
13.	Kanak Harendra Vijaywar	9765280017	khvijaywar@gmail.com	khvijay.	khvijay.	21	16		
14.	Kashish Kanthiram Chatur	8208770024	kashishchatur18@gmail.com	KKchatur	KKchatur	18	20		
15.	Manalee Manohar Sirsat	8975246115	manaleesinsat@gmail.com	[illegible]	[illegible]	25	22		
16.	Mayur Sonu Thakur	8055265379	tsonu1579@gmail.com	Mayu	Mayur	20	18		
17.	Mohd. Azhar Sheikh								
18.	Nirali Vilas Budhe	9209020324	nirali budhe@gmail.com	Nirali	Nirali	17	23		
19.	Nisha Dhansingh Bavankar								
20.	Nisha Sohanlal Patle								
21.	Nupur Umesh Selokar								
22.	Pallavi Surajlal Bijewar								
23.	Payal Pramod Sontakke	8208615204	Sontakkepraj wal15@gmail.com	Payal	Payal	20	19		
24.	Prajwal Devendra Hatwar	8459481067	devendrahatwars@gmail.com	Hatwar	Hatwar	23	23		
25.	Pranali Yadorao Rahangdale	9834535911	Pranalirahangdale83	Pranali	Pranali	20	18		
26.	Priyanka Budharam Kamble	7720011719	asthakamble05@gmail.com	[illegible]	[illegible]	15	17		

27.	Priyanka Singh								
28.	Rashmi Anilingole	9975197565	rashmiingole23@gmail.com	R.A. Ingole	R.A. Ingole	20	21		
29.	Rohit Arun Lanjewar	9067218946	rohitlanjewar135@gmail.com	Rlanjewar	Rlanjewar	15	18		
30.	Ruchika Shailesh Undersayare								
31.	Saket Sanjiv Bansod	7775829526	saketbansod258@gmail.com	Bansod	Bansod	21	20		
32	Sakshi Dnyaneshwar Pardhi	9370233199	SakshiPardhi1226@gmail.com	Pardhi	Pardhi	23	15		
33.	Sapana Prabhashankar Bhagat	7219069387	bhagatsapna676@gmail.com	Bhagat	Bhagat	25	18		
34.	Shrushti Khushalji Naik								
35.	Shruti Vijay Shendre								
36.	Siddhi Anand Kitkaru	7666618195	Siddhikitkaru@gmail.com	Siddhi	Siddhi	17	23		
37.	Sparshika Rajendra Hadke								
38.	Trisha Dhaniram Jamaiwar								
39.	Umesh D Raut	9022507543	umeshraut2003@gmail.com	Raut	Raut	16	21		
40.	Yogini Sanjayrao Dhole	7057825591	yoginidhole79@gmail.com	Dholet	Dholet	21	16		

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF LANGUAGES
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

(SUPP. ENGLISH)

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Rem: if a
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Manalee M. Sirsat	8975246115	manaleesirsat@gmail.com			16	22		
2.	Poonali · Y. Rahangdale	9834535911	Poonalirahangdale85	Poonali	Poonali	15	18		
3.	Prajwal · D. Hatwar	8459481067	devendrahatwar5@gmail.com	Hatwar	Hatwar	24	16		
4.	Yogini S. Dhole	7058825591	yoginidhole79@gmail.com	Dhole	Dhekat	17	23		
5.	Khushboo P. Rahangdale	9322336852	khushboorahangdale6@gmail.com	Khushboo	Khushboo	14	22		
6.	Pragya · A. Rai	9421776924	Pragyarai5424@gmail.com	Pragya	Pragya	16	18		
7.	Vipula R. Nadekar	9881066887	nadekarvipula@gmail.com	Vipula	Vipula	18	17		
8.	Siddhi A. Kitkaru	7666618195	Siddhikitkaru@gmail.com	Siddhi	Siddhi	20	20		
9.	Mayur Thakur	8055265379	tsonu1579@gmail.com	Mayu	Mayu	22	23		
10.	Rashmi · A · Ingole	9975197565	rashmiingole.23@gmail.com	R·A·Ingole	R·A·Ingole	25	22		

11.	Piyush.p.Dewase	7972600561	Piyushdewase@gmail.com	P.Dewase	P.Dewase	14	20		
12.	Samruddhi patte.	9356630047	samruddhipatte@gmail.com.	S.P.Patte	S.P.Patte	21	15		
13.	Urvashi Hinje	8459021488	urvashihinje5@gmail.com			16	22		
14.	Ruhani.Chaubey	8263951682	rchaubey500@gmail.com	Shaubey	Shaubey	19	25		
15.	Manali.Dhanapune	9284227616	manalidhanapune@gmail.com	Manali	Manali	22	19		
16.	Danis Y. Chhaware	9376701393	danischhaware@gmail.com	Danis	Danis	24	15		
17.	Shantanu.M.Songis	7620413678	shantanusongisleare@gmail.com			16	17		
18.	Ayush.D.Yadav	9529335441	Ayushyadavji@gmail.com	Ayush	Ayush	15	20		
19.	Palak Pande	8421388291	Pande2005palak@gmail.com	Palak	Palak	20	16		
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21.	Shashikant Bangadkar	8767799682	shashikantbangadkar37@gmail.com			22	20		
22.	Neeraj.R.Vishwakarma	7840904511	Neerajvishwakarma913800@gmail.com	Nvishwakarma	Nvishwakarma	15	23		
23.	Aman Gupta	8767096373	realaman988@gmail.com	Agupta	Agupta	19	19		
24.	Himanshu P. Raut	9075466951	rauthimanshu53@gmail.com	HRaut	HRaut	21	16		
25.	Vaibhav.A.Dhole	8459299447	vaibhavdhole3026@gmail.com	Dhole	Dhole	24	15		
26.	Rutuja.Y.Wanare	9579405713	rutujawanare03@gmail.com	Wanare	Rwanare	25	14		

27.	Ansh K. Gajbhiye	9763765826	krishnaGajbhiye@gmail			16	22		
28.	Vivek YADAV	9834697828	VY86800 2@gmail	Vivek	Vivek	18	19		
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33	Muskan D. Mathure	7666872966	mathuremuskan@gmail.com	Mathure	Mathure	23	15		
34	Mrunali S. Lajurkar	7020428285	abhijitsoft007@gmail.com	Mlajurkar	Mlajurkar	16	20		
35	Ruchika P. Kurhadkar	7066396136	Kushadkarruchika@gmail.com	RKurhadkar	RKurhadkar	18	22		
36	Darpan S. Pawar	9021309628	darpansPawar@gmail.com	D.S.Pawar	D.S.Pawar	21	19		
37	Darshan Bramhane	8087108884	darshbrmhaneos@gmail.com	DBramhane	DBramhane	19	20		
38	Arpit Gajbhiye	8799927374	arpitgajbhiye209@gmail.com	Abhiye	Abhiye	18	20		
39	Danis Y. Chhaware	9370701393	danischhaware@gmail.com	Danis	Danis	22	22		
40	Shreyansh R. Satpute	7498796164	shreyanshsatpute@gmail.com	Shreyansh	Shreyansh	21	20		
41	Prachi R. Gudadhe	9322913742	Prachigudadhe21@gmail.com			25	16		
42									

Dharampeth M.P.Deo Memorial Science College, Nagpur
Bachelor of Science B.Sc. SEMESTER –I
COMPULSORY ENGLISH
UNTI TEST – I, II

Time: 1 ½ Hours] [Maximum Marks: 15

Name of the Student: _____ Group _____ Batch _____

Q.1. (A) Answer the following question in about 120 words each: 06

How did Washington manage to get admission in Hampton Institute?

OR

What lessons of life did Bagchi learn from his mother?

Q.**2. (A) Answer ANY ONE the following questions in about 75 words each:** 04

What kind of conditions did Nightingale find in the hospitals?

OR

How does Gangabehn manage to facilitate supply of hand-spun yarn to Gandhiji?

3. (B) Answer ANY FIVE of the following questions in one or two sentences each: 05

(i) What was the result of Washington's exam?

(ii) What was the first job that Florence Nightingale took?

(iii) What did Umar Sobani provide Gandhiji with?

(iv) When would Bagchi's father use the government's jeep?

(v) What task did the head Teacher give to Washington?

(vi) Who coined the term' *Jai Jawan , jai Kisan'*?

Dharampeth M.P.Deo Memorial Science College, Nagpur
Bachelor of Science B.Sc. SEMESTER –I
COMPULSORY ENGLISH
UNTI TEST –I, II

Time: 1 ½ Hours] [Maximum Marks: 20

Name of the Student: _____ Group _____ Batch _____

Q.1. (A) Answer the following question in about 100 words each: 08

Q.1 Explain the Listening Process

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Q.**2. (A) Explain the terms in detail** 12

1) Pre –Listening Analysis

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2) Team Listening:

3) Linguistic Barrier:

4) Cultural Barrier:

Dharampeth Education Society's

Dharampeth M.P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM-I

Test 1 (Microbiology)

Paper-I (Unit I and II)

Time: 1 hour 30 min] [Maximum Marks:25

N.B: (1) All question are compulsory and carry equal marks.

(2) Draw neat and labelled Diagram wherever necessary.

Q1- a) Explain Goose-neck flask experiment. 10M

OR

b) Describe the structure of cell wall of Gram positive bacteria. 10M

Q2- a) Write Koch's postulates 2½M

b) What is biotechnology? Give its importance. 2½M

c) Write a note on chicken-cholera experiment carried by Louis Pasteur. 2½M

d) Write a note on geomicrobiology and exomicrobiology. 2½M

OR

e) What are mesosomes? Give its functions. 2½M

f) Draw a structure of typical bacterial cell. 2½M

g) Discus various types of flagellar movements. 2½M

h) Draw a structure of endospore and label it. 2½M

Q3- Answer the following. (any5)

a) Who is the father of anticeptic surgery? 1M
b) What is attenuation? 1M
c) Who is the father of germ theory? 1M
d) What is the Svedberg's unit? 1M
e) Define protoplast. 1M
f) What is glycocalyx? 1M

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

DEPARTMENT OF MICROBIOLOGY

SESSION 2023- 2024

Bachelor of Science (B.Sc.) SEM- I Unit test Examination
Microbiology
Basic Techniques in Microbiology
Paper-II

Time: 1&1/2 Hours] Test 2 **[Maximum Marks:**25]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q. 1 With well labeled diagram describe Transmission Electron Microscope in detail. (10 M)

Or

Q. 1 With well labeled flowchart describe the process of Gram staining in detail. (10 M)

Q2. Write short note on: (Any 2) (5*2=10 M)

A) Mechanism of Acid Fast staining
B) Use of Oil Immersion objective in compound Microscopy
C) Types of Electron Guns
D) Classification of Stains & dyes

Q 3. Answer in short: (Any 5) (1*5=5 M)

A) Define : Mordant

B) Applications of Dark field Microscopy

C) Define : Resolving Power

D) Define : Chromophore

E) Which stains are used in Schaffer and Fulton Method for Endospore Staining.

F) Why does the Acid Fast Bacteria does not take up the stains easily ?

G) Define: Numerical Aperture

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

DEPARTMENT OF MICROBIOLOGY

SESSION 2023- 2024

Bachelor of Science (B.Sc.) SEM- I Unit test Examination
Microbiology
Basic Techniques in Microbiology
Paper-I (Unit III & IV)

Time: 1&1/2 Hours] **[Maximum Marks:**25]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q. 1 Describe the Classification of Bacteria on the basis of their Nutritional Requirement(10 M)

Or

Q. 1Describe the Mathematical Expression of Bacterial Growth Curve..(10 M)

Q2. Write short note on: (Any 2) (5*2=10 M)

A) Synchronous Growth
B) Factors Influencing Microbial Growth.
C) Describe media used for Isolation of Fungi.
D) Write short note on reproduction in Bacteria.

Q 3. Answer in short: (Any 5) (1*5=5 M)

A) Define :Diauxie phenomenon

B) What is Axenic Culture

C) Define : Phototrophs with suitable example.

D) Define : Chemolithotrophs.

E) What is Enrichment Culture ?

F) What is Binary Fission ?

G) Define:Chemostat .

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

DEPARTMENT OF MICROBIOLOGY

SESSION 2023- 2024

Bachelor of Science (B.Sc.) SEM- I Unit test Examination
Microbiology
Basic Techniques in Microbiology
Paper-II (Unit 3 & 4)

Time: 1&1/2 Hours] [**Maximum Marks:**25]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q. 1. (10 M)

Or

Q. 1 With well labeled flowchart describe the process of Gram staining in detail. (10 M)

Q2. Write short note on: (Any 2) (5*2=10 M)

E) Mechanism of Acid Fast staining
F) Use of Oil Immersion objective in compound Microscopy
G) Types of Electron Guns
H) Classification of Stains & dyes

Q 3. Answer in short: (Any 5) (1*5=5 M)

A) Define : Mordant

B) Applications of Dark field Microscopy

C) Define : Resolving Power

D) Define : Chromophore

E) Which stains are used in Schaffer and Fulton Method for Endospore Staining.

F) Why does the Acid Fast Bacteria does not take up the stains easily ?

G) Define: Numerical Aperture

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Ayushi Prakash Chaudhary	7756017460	ayushichaudhari@gmail.com						
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3.	Dipanshu Deepak Golait	9307581773	Dipanshugolait@gmail.com	D. D. Golait	D. D. Golait	D. D. Golait	D. D. Golait		
4.	Divya Homchand Sahare	7498313546	sahoredivya256@gmail.com						
5.	Divyansh Asok Raut	7058194691	Divyanshraut921@gmail.com						
6.	Harsh Ganesh Kale	9356482390	Harshkale635@gmail.com						
7.	Karuna Kewalramni Mehndole	9302710146	mehndole karuna						
8.	Najia Sheikhnoor Sattar Bairam	9921814426	najiya bairam@gmail.com						

25.									
26.									
27.									
28.									
29.									
30.									

Pimple

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

F-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
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3.	Anushka Ashok Bhimgade	9845152819	anushkabhimg@gmai	ABSENT	ABSENT	[illegible]	ABSENT		
4.	Ashwin Shivprasad Kashyap	9095456512	ashwinkashyap1@gmail.com	ABSENT	ABSENT	[illegible]	AB.		
5.	Atharva Aniruddha Astikar	8080109712	atharvaastikar221@gmail.com	A.A. Astikar	A.A. Astikar	A.A. Astikar	A.A. Astikar		
6.	Dipty ~~Anil~~ Zoting Vishnu	8767106024	diptyzoting5@gmail.com	Dipty	ABSENT	Dipty	ABSENT		
7.	Divya Dumdeo Mankar				ABSENT				
8.	Gaurav Dharmraj Gharjale				ABSENT				
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10.	Jayant Ravindra Rohankar				ABSENT				

11.	Jayashri Jaykishor Pandit	7387670246	Jayashripandit135@gmail.com	Pandit	Pandit	Pandit	Pandit		
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16.	Mayur Sonu Thakur	8055265379	tsonu1579@gmail.com	Mayur	Mayur	Mayur	Mayur		
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20.	Nisha Sohanlal Patle	ABSENT							
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30.	Ruchika Shailesh Undersayare			ABSENT					
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39.	Umesh D Raut	9022507543	umeshraut2003@gmail.com	URaut	URaut	URaut	URaut	URaut	
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muskan

Name & Signature of Teacher In-Charge

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Name & Signature of Head of the Department

Head
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Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
UNIT TEST 2023-24
Marks Sheet (DVV)
B. Sc. Semester I

Sr. No.	Name of the Students	Test 1 Paper I Unit I & II	Test 2 Paper I Unit III & IV	Test 3 Paper II Unit 1 & II	Test 4 Paper II Unit III & IV
1.	Ayushi Prakash Chaudhary	15/25	14/25	15/25	11/25
2.	Bhavesh Suresh Urade	14/25	16/25	16/25	12/25
3.	Dipanshu Deepak Golait	13/25	17/25	17/25	13/25
4.	Divya Homchand Sahare	16/25	18/25	16/25	14/25
5.	Divyansh Asok Raut	15/25	16/25	17/25	16/25
6.	Harsh Ganesh Kale	14/25	14/25	18/25	14/25
7.	Karuna Kewalramni Mehndole	15/25	16/25	12/25	13/25
8.	Najia Sheikhnoor Sattar Bairam	18/25	18/25	14/25	14/25

9.	Pallavi Yogiraj Khawashi	15/25	16/25	14/25	16/25
10.	Pooja Manik Mashakhetri	16/25	18/25	13/25	14/25
11.	Prachi Ravindra Gudadhe	17/25	17/25	14/25	15/25
12.	Pragya Alok Rai	18/25	18/25	13/25	12/25
13.	Rasika Mahipal Bandhate	16/25	16/25	14/25	10/25
14.	Sakshi Rajesh Singh	14/25	14/25	13/25	20/25
15.	Shivani Vijay Wakulkar	15/25	16/25	14/25	18/25
16.	Shriya Pradip Gahukar	16/25	14/25	13/25	15/25
17.	Shruti Vijay Singh	17/25	13/25	14/25	13/25
18.	Sonal Ambadas Pardhi	16/25	14/25	13/25	14/25
19.	Sujal Digambar Motghare	14/25	15/25	14/25	13/25
20.	Vipula Raju Nadekar	17/25	13/25	15/25	14/25
21.	Aishwarya Satish Thakre	18/25	14/25	14/25	13/25
22.	Aniket Vijay Valukar	16/25	13/25	15/25	14/25
23.	Anushka Ashok Bhimgade	16/25	ABSENT	15/25	ABSENT
24.	Ashwin Shivprasad Kashyap	12/25	ABSENT	16/25	ABSENT

25.	Atharva Aniruddha Astikar	14/25	16/25	16/25	13/25
26.	Dipty Anil Zoting	15/25	17/25	18/25	14/25
27.	Divya Dumdeo Mankar	ABSENT			
28.	Gaurav Dharmraj Gharjale	ABSENT			
29.	Isha Devidas Rewatkar	16/25	14/25	14/25	16/25
30.	Jayant Ravindra Rohankar	ABSENT			
31.	Jayashri Jaykishor Pandit	17/25	15/25	14/25	14/25
32.	Jyoti Jayprakash Singh	ABSENT			
33.	Kanak Harendra Vijaywar	18/25	16/25	16/25	16/25
34.	Kashish Kanthiram Chatur	16/25	17/25	16/25	13/25
35.	Manalee Manohar Sirsat	17/25	14/25	14/25	14/25
36.	Mayur Sonu Thakur	18/25	16/25	16/25	16/25
37.	Mohd. Azhar Sheikh	14/25	14/25	14/25	14/25
38.	Nirali Vilas Budhe	16/25	18/25	14/25	14/25
39.	Nisha Dhansingh Bavankar	17/25	17/25	15/25	16/25
40.	Nisha Sohanlal Patle	ABSENT			

41.	Nupur Umesh Selokar	ABSENT			
42.	Pallavi Surajlal Bijewar	14/25	16/25	14/25	16/25
43.	Payal Pramod Sontakke	15/25	14/25	15/25	15/25
44.	Prajwal Devendra Hatwar	16/25	14/25	14/25	15/25
45.	Pranali Yadorao Rahangdale	14/25	16/25	14/25	13/25
46.	Priyanka Budharam Kamble	14/25	16/25	13/25	14/25
47.	Priyanka Singh	15/25	14/25	13/25	14/25
48.	Rashmi Anilingole	16/25	14/25	13/25	14/25
49.	Rohit Arun Lanjewar	13/25	14/25	13/25	14/25
50.	Ruchika Shailesh Undersayare	ABSENT			
51.	Saket Sanjiv Bansod	13/25	14/25	13/25	14/25
52.	Sakshi Dnyaneshwar Pardhi		ABSENT	16/25	ABSENT
53.	Sapana Prabhashankar Bhagat	14/25	15/25	16/25	13/25
54.	Shrushti Khushalji Naik	ABSENT	11/25	12/25	14/25

55.	Shruti Vijay Shendre	16/25	14/25	15/25	15/25
56.	Siddhi Anand Kitkaru	14/25	10/25	16/25	11/25
57.	Sparshika Rajendra Hadke	ABSENT			
58.	Trisha Dhaniram Jamaiwar	15/25	ABSENT	14/25	ABSENT
59.	Umesh D Raut	14/25	11/25	17/25	12/25
60.	Yogini Sanjayrao Dhole	16/25	14/25	14/25	14/25

Dr.Vaishali Pimple

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF MICROBIOLOGY

Session: 2023 -24

Bachelor of Science (B.Sc.) SEM -III
Unit Test Examination (Microbiology) (Unit 1 and 2)
Paper I- Chemistry of organic constituents and Enzymology

Time :- 1 & ½ hours **Maximum marks:- 25**

N.B: (1) All questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagram whenever necessary.

Qu.1: Discuss in detail about Phospholipids and Glycolipids. -10 marks

OR

a) Describe the structure of Hyaluronic acid. -5 marks
b) Write a note on structure of Starch. -5 marks

Qu.2: Explain in detail Primary & Secondary structure of proteins. –10 marks

OR

a) Describe tertiary structure of proteins with suitable example. – 5marks
b) Give classification of amino acids on the basis of side chain. –5marks

Qu.3: Answer any FIVE. – 5 marks

a) Define Anomer.
b) What are Prostaglandins.
c) Define neutral amino acids.
d) What is peptide bond?
e) What is Cardiolipin.
f) Name any two bonds involved in tertiary structure of proteins.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF MICROBIOLOGY

Session: 2023 -24

Bachelor of Science (B.Sc.) SEM -III

Unit Test Examination (Microbiology) (Unit 1 and 2)

Paper II- Industrial Microbiology

Time :- 1 & ½ hours **Maximum marks:- 25**

N.B: (1) All questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagram whenever necessary.

Qu.1: Explain in detail about Types of fermenters. -10 marks

OR

a) Write a note on Primary Screening and secondary screening -5 marks
b) Discuss the design of typical fermenter with their parts. - 5 marks

Qu.2:
(a) Give the detail about strain development. 2½ marks
(b) Explain raw materials used for media preparation. 2½ marks
(c) Write a note on Scale up of fermenter process. 2½ marks
(d) Write a short note on Inoculum Development. 2½ marks

OR

(e) Give in detail about factors affecting fermentation process. 5 marks
(f) Write a note on sterilization of fermenters and production media. 5 marks

Qu.3: Answer any FIVE. – 5 marks

a) What is fermentation?
b) Name any two examples of industrially important microorganisms.
c) Write any two factors which affecting fermentation process?
d) Define Primary Screening?
e) Name any two examples of raw material used in fermentation process?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF MICROBIOLOGY

Session: 2023 - 24

UNIT TEST II : 2023-24 (P II)

CLASS: B.Sc. SEM III

Time: 1 1/2Hrs. **Max.Marks:** 25

Que. 1: Describe various methods of product purification in down stream processing.

OR

Describe production of bakers yeast.

10x1

Que.2 : i) Discuss microbiological quality test as per pharmaceutical Compendeum.

ii)Describe role of hop cones in beer production, also discuss biochemistry of beer production.

5x2

Que.3: i) Write shot note in IP.

ii)Draw flow sheet daigrm for SCP production.

2.5x2

Teacher in charge Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF MICROBIOLOGY

Session: 2023 -24

Bachelor of Science (B.Sc.) SEM -III

Unit Test Examination (Microbiology) (Unit 3 and 4)

Paper I- Chemistry of organic constituents and Enzymology

Time :- 1 & ½ hours **Maximum marks:- 25**

N.B: (1) All questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagram whenever necessary.

Qu.1: Derive Michaelis-Menton equation and discuss its modifications. -10 marks

OR

a) Write a note on classification of enzymes. -5 marks
b) Discuss competitive and non-competitive enzyme inhibition. - 5 marks

Qu.2: (a) Give the difference between B-DNA and Z-DNA. 2½ marks
(b) Draw the structure of t-RNA. 2½ marks
(c) Write a note on hypovitaminosis with example. 2½ marks
(d) Classify vitamins on the basis of water solubility. 2½ marks

OR

(e) Diagrammatically illustrate double helical structure of DNA. 2½ marks
(f) Explain the structure of GTP. 2½ marks
(g) Write a note on hypervitaminosis with example. 2½ marks
(h) Write short note on T-RNA. 2½ marks

Qu.3: Answer any FIVE. – 5 marks

a) What is turn over number?
b) Name the Pyrimidines in RNA.
c) Write the name of Vit K deficiency disease?
d) What is EC Number?
e) What is allosteric enzyme?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Anjali Rajeshwar Thakre	7066554821	thakreanju381@gmail.com	Anjali	Anjali	Anjali	Anjali		
2.	Anshul Yuvraj Kirnapure	9284067169	anshulkirnapure650@gmail.com	Anshul	Anshul	Anshul	Anshul		
3.	Anvay B. Borkar	9168538614	anvayborkar19@gmail	Anvay	Anvay	Anvay	Anvay		
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5.	Apeksha Digambar Kotangale	7559455794	apekshakotangale26@gmail.com	Akotangale	Akotangale	Akotangale	Akotangale		
6.	Arya Pritam Dhoke	9011681628	aryanamrata331@gmail.com	aryadhoke	aryadhoke	Aryadhoke	Aryadhoke		
7.	Komalika Sheshram Choudhari	9322033866	Komalikachaudhari073@gmail.com	Komalika	Komalika	Komalika	Komalika		
8.	Nisha V. Pande	8208548605	Nishapandey710203@gmail.com	Nisha	Nisha	Nisha	Nisha		

9.	Nitu Birbahadur Rai	7058638984	nitu1419@gmail.com	Ab	Ab				
10.	Pritam Sudhakar Kokode			Absent					
11.	Priyanshu Tejrao Raut	9322725233	Priyanshuraut56@gmail.com						
12.	Ravindra Madhukar Khadse	8007198273	khadseravindra892@gmail.com						
13.	Vaishnavi Namdeorao Tonge	8421657943	vaishutonge2004@gmail.com						
14.	Vanshita Deorao Vaidya			Absent					
15.	Yogita Ramesh Denge	7058437240	yogitadenge@gmail.com						
16.									
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18.									

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Ms. Abha Khedikar

Prof. Pitambar Humane
IQAC Coordinator
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Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department
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Dharampeth M. P. Deo Memorial
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Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aakansha Yogesh Mairal	8010923662	aakanshamairal17@gmail.com	Aymairal	Aymairal	Aymairal	Aymairal		
2.	Anjali Kishor Meshram	8855819748	anjalimeshram2023@gmail.com	Anjali	Anjali	Anjali	Anjali		
3.	Anshul Ratanlal Yadav	9156494085	anshulyadav135630@gmail.com	Anshuly	Anshuly	Anshuly	Anshuly		
4.	Chanchal Kishor Waghmare	7796016894	waghwanitara@gmail.com	chanchal	chanchal	chanchal	chanchal		
5.	Dhanshree M. Neware	9359909913	Dhanashrineware786@gmail.com	Dhanu	Dhanu	Dhanu	Dhanu		
6.	Dolly Krushna Wanjari	9326013213	Krishnawanjari12345@gmail.com	Dolly	Dolly	Dolly	Dolly		
7.	Gauri Ramesh Bhoyar	8668335876	gunjanbhoyar34@gmail.com	Gauri	Gauri	Gauri	Gauri		
8.	Kartika Mohan Deshmukh	9649720460	Kartikamd20@gmail.com	Kdeshmukh	Kdeshmukh	Kdeshmukh	Kdeshmukh		
9.	Khushi Kamlakar Rewade			Absent					
10.	Krutika Subhash Pokale	9021533341	Pokalekrutika6@gmail.com	Kspokale	Kspokale	Kspokale	Kspokale		

11.	Meenal A. Choudhari	9529014604	meenalchoudhary2004@gmail.com						
12.	Muskan Vinay Kulkarni	9156889239	Muskankulkarni34@gmail.com			Ab			
13.	Neha Lakhand Wanjari	9373832266	nehawanjari733@gmail.com						
14.	Pranali Yashwant Chavhare	9699654582	pranalichavhare69@gmail.com						
15.	Pratiksha Mangal Meshram	8459070338	meshrampratiksha46@gmail.com						
16.	Ritika R. Sondhiya	9175581655	ritikasondiya@gmail.com						
17.	Riya Anil Singh	9595649831	riyaa82307@gmail.com						
18.	Samiksha Ambadas Khobragade	9156906097	khobragadesamiksha381@gmail.com						
19.	Shreya Ajitkumar Jha	9763925971	Shreyajha2512@gmail.com						
20.	Shruti Surendra Channekar	7284628481	shrutichannekar						
21.	Siddhi Bhagwat Tiwari	8087143696	siddhitiwari0721@gmail.com						
22.	Sonali Gopal Choudhari	8856055003	sonalichoudhari19@gmail.com						
23.	Umang Gandhar Warthi	9322428500	umangwarthi@gmail.com						
24.	Vaidehi Pawan Thote	7405 7558499191	vaidehithote27@gmail.com						
25.	Yashshree Ashok Pawar	9359117016	yashashreepawar37@gmail.com						
26.									

27.									
28.									
29.									
30.									

Name & Signature of Teacher In-Charge

Mrs. Abha Khedikar

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF MICROBIOLOGY

Session: 2023-24

UNIT TEST EXAMINATION MARKSHEET

Class: - B.Sc. II Sem -III

Sr. No.	Name of Students	Marks Obtained			
		Test-1 Paper-I	Test-2 Paper-I	Test-3 Paper-II	Test-4 Paper-II
		Unit I & II	Unit – III & IV	Unit- I & II	Unit – III & IV
1.	Anajali Rajendra Thakre	21/25	13/25	14/25	11/25
2.	Anshul Yuvraj Kirnapure	23/25	18/25	13/25	12/25
3.	Anyav Bhojraj Borkar	14/25	13/25	14/25	13/25
4.	Aparna GajananMohare	13/25	14/25	13/25	14/25
5.	Apeksha Digambar Kotangale	18/25	16/25	14/25	16/25
6.	Arya Pritam Dhoke	14/25	14/25	15/25	13/25
7.	Komalika Sheshram chaudhari	16/25	24/25	14/25	14/25
8.	Nisha Vidyabhushan Pande	14/25	13/25	13/25	13/25
9.	Nitu Birbahadur Rai	Absent		14/25	13/25

10.	Pritam S. Kokade	24/25	21/25	14/25	16/25
11.	Priyanshu T. Raut	Absent			
12.	Ravindra Madhukar Khadse	22/25	24/25	16/25	14/25
13.	Vaishnavi Namdeorao Tonge	21/25	23/25	14/25	16/25
14.	Vanshita Deorao Vaidya	Absent			
15.	Yogita Ramesh Denge	20/25	24/25	18/25	14/25
16.	Aakansha Yogesh Mairal	21/25	21/25	13/25	13/25
17.	Anjali Kishore Meshram	18/25	21/25	14/25	16/25
18.	Anshul Ratanlal Yadav	13/25	22/25	15/25	14/25
19.	Chanchal Kishor Waghwani	14/25	18/25	18/25	13/25
20.	Dhanshree Mohpal Neware	13/25	13/25	16/25	16/25
21.	Dolly Krushna Wanjari	13/25	14/25	17/25	17/25
22.	Gauri Ramesh Bhoyar	14/25	13/25	18/25	18/25
23.	Kartika Mohan Deshmukh	13/25	18/25	19/25	19/25
24.	Khushi Kamlakar Rewade	Absent			
25.	Krutika Subhash Pokale	14/25	16/25	16/25	24/25
26.	Meenal Amresh Choudhary	14/25	13/25	14/25	16/25

27.	Muskan Vijay Kulkarni	18/25	18/25	18/25	12/25
28.	Neha Lalchand Wanjari	24/25	19/25	19/25	14/25
29.	Pranali Yashwant Chavhare	13/25	14/25	14/25	18/25
30.	Pratiksha Mangal Meshram	15/25	16/25	13/25	16/25
31.	Ritika Rakesh Sondhiya	12/25	14/25	14/25	14/25
32.	Riya Anil Singh	16/25	19/25	18/25	11/25
33.	Samiksha Ambadas Khobragade	18/25	18/25	15/25	14/25
34.	Shruti Surendra Channekar	19/25	16/25	16/25	16/25
35.	Shreya Ajitkumar Jha	14/25	18/25	14/25	17/25
36.	Siddhi Bhagwat Tiwari	12/25	19/25	13/25	18/25
37.	Sonali Gopal Choudhari	14/25	16/25	18/25	12/25
38.	Vaidehi Pawan Thote	16/25	14/25	19/25	14/25
39.	Umang Gangadhar Warthi	14/25	18/25	25/25	16/25
40.	Yashashree Ashok Pawar	18/25	14/25	14/25	18/25

Signature of Teacher Incharge
Mrs. Abha Khedikar.

Signature of Head of Department
Head
Deptt. of Microbiology
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Science College, Nagpur

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

DEPARTMENT OF MICROBIOLOGY

SESSION 2023- 2024

Bachelor of Science (B.Sc.) SEM- V Unit test Examination

Microbiology

Medical Microbiology

Paper-I

Time: 1&1/2 Hours]

[**Maximum Marks:**25]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q1. Describe the various modes of Transmission of the diseases ? (10M)

OR

Q1.Differentiate between Exotoxin & Endotoxin (10M)

Q2. Write notes on (Any 2) (2*5=10M)

A) Define and differentiate between Clinical and Subclinical Case ? Whyc Subclinical case is more dangerous
B) What are Biological Vectors ? Explain.
C) Describe the Normal Flora of Gastrointestinal Tract
D) What are toxoids?

Q3. Write short answers: (Any 5) (1*5=5M)

A) Define : Attenuation
B) Define : LD50
C) Define : Bacterimia
D) What are Secondary infections.
E) What are Adhesins?
F) Define: Virulance

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

DEPARTMENT OF MICROBIOLOGY

SESSION 2023- 2024

Bachelor of Science (B.Sc.) SEM- V Unit test Examination
Microbiology
Medical Microbiology
Paper-I (Unit 3 & 4)

Time: 1&1/2 Hours] Test 3 [**Maximum Marks:**25]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q1. Describe the cultural and Biochemical Characteristics of *E.coli* .(10M)

Or

Q1. Write in detail about Kirby-Bauer Disc Diffusion Method (10M)

Q2 . Write short note on : (Any 2) (2*5=10 M)

A) Discuss mode of Action of (i) Penicillin (ii) Trimethoprim
B) Discuss mechanism of Antimicrobial Resistance .
C) Explain Coagulase Test
D) Describe the laboratory diagnosis and Treatment of *S.aureus*

Q3. Write Short Answers : (Any 5) (1*5=5M)

(i) What is the result of IMViC test of *E.coli* ?
(ii) Why Salmonella typhi is called anaerogenic ?
(iii) What is meant by MRSA ?
(iv) What is BCG stands for ?
(v) In E-strip method , E stands for What ?
(vi) Name any two inhibitors of Nucleic Acid Synthesis
(vii) Name any two Virulance Factors of *S. aureus*

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

DEPARTMENT OF MICROBIOLOGY

SESSION 2023- 2024

Bachelor of Science (B.Sc.) SEM- V Unit test Examination
Microbiology
Molecular Biology & Bioinstrumentation
Paper-II (Unit I& II)

Time: 1&1/2 Hours] [**Maximum Marks:**25]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q1. Describe the Lactose Operon in detail(10M)

OR

Q1.Describe the process of Transformation in detail .(10M)

Q2. Write notes on (Any 2) (2*5=10M)

A) Write short note on Conjugation
B) Describe in short Induced mutations
C) What Are Transposable genetic elements
D) What is gene within gene

Q3. Write short answers: (Any 5) (1*5=5M)

A) Define : Recon
B) Define : Spontaneous mutation
C) Define : Transduction
D) What is Nonsense mutation
E) What is Lysogen
F) Define: Induced mutation

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR.

DEPARTMENT OF MICROBIOLOGY

SESSION 2023- 2024

Bachelor of Science (B.Sc.) SEM- V Unit test Examination
Microbiology
Molecular Biology & Bioinstrumentation
Paper-II (Unit III & IV)

Time: 1&1/2 Hours] **[Maximum Marks:**25]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q1. Describe UV Visible Spectroscopy in detail .(10M)

OR

Q1.Describe the Analytical & Differential Centrifugation in detail .(10M)

Q2. Write notes on (Any 2) (2*5=10M)

A) Write short note on SDS PAGE Electrophoresis.
B) Describe Principle of Ion Exchange Chromatography.
C) What Are the Applications of UV Visible Spectroscopy.
D) What is Rate Zonal Centrifugation ?

Q3. Write short answers: (Any 5) (1*5=5M)

A) Define : Beer's Law
B) Define : Partition Coefficient.
C) Define : Isotopic Tracer Technique
D) Write any two isotopes used in Geiger Muller Counter
E) What is Thin layer Chromatography
F) Define: Electrophoresis.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-13

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aanchal Santosh Singh	7875537925	Santoshsingh23123@gmail.com	Aanchal Singh	Aanchal Singh	Aanchal Singh	Aanchal Singh	Aanchal Sin	
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8.	Kalyani Chudaram Shahare	9307046378	Shaharekalyani5@gmail.com	Kshah	Kshah	Kshah	Kshah	Kshah	
9.	Ketaki Ramchandra Kirpal	9112759066	ketakikirpal13@gmail.com	Kkirpal	Kkirpal	Kkirpal	Kkirpal	Kkirpal	

10.	Nikita Shriram Bhave	7820812749	nikitabhave98@gmail.com	N.S.Bhave	N.S.Bhave	N.S.Bhave	N.S.Bhave	N.S.Bhave	
11.	Pallavi Chandrabhan Borkar	9373187246	borkarpallavi93@gmail.com	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
12.	Prachal Manik Meshram	7028735508	prachalmeshram@gmail.com	Prachal.M	Prachal.M	Prachal.M	Prachal.M	Prachal.M	
13.	Pratiksha Sampat Navghare	8623033760	Navghare[illegible]	P.S.Navghare	P.S.Navghare	P.S.Navghare	[illegible]	P.S.Navghare	
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26.									
27.									
28.									
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30.									

Name & Signature of Teacher In-Charge

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IQAC Coordinator

IQAC Coordinator
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Name & Signature of Head of the Department

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Dr. Akhilesh Peshwe
Principal

Principal
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V

T-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aditya Mithilesh Tiwari	8668683697	Adityatiwari1080@gmail.com			ABSENT		A.M. tiwari	
2.	Aman Anil Dongre	7709217312	amandongre2003@gmail.com	Dongre	Dongre	Dongre	Dongre	Dongre	
3.	Anagha Ramchandra Sainis				ABSENT			A.R. Sainis	
4.	Anjali Anil Mishra	9325604513	anjalimishra4954@gmail.com	Anjali	Anjali	Anjali	Anjali	Anjali	
5.	Chhakuli Ganesh Wadikar	9325047907	chhakuliwadikar@gmail.com					Chhakuli	
6.	Darshna Sudhakar Madavi	8830146516	darshnamadavi@gmail.com	Madavi	Madavi	Madavi	Madavi	Madavi	
7.	Dhanshree Yashwant Newalkar	9356516280	newalkardhansh@gmail.com					D.Y.N	
8.	Gargi Laxmikant Hadge	7972076671	gargihadge@gmail.com	GLH	GLH	GLH	GLH	GLH	
9.	Harsh Shankar Kodape	9604677672	harshkodape008@gmail.com	Kodape	Kodape	Kodape	Kodape		

10.	Jagruti Dhanraj Warkar	7447366023	jyotiwarkar09@gmail.com						
11.	Juhi Sheshram Chaudhari	8669248944	Chaudharijuhi120@gmail.com	Juhi	Juhi	Juhi	Juhi	Juhi	
12.	Jyoti Jitendra Sharma	8669736380	jyotis8390@gmail.com	ABSENT	J. Sharma	J. Sharma	J. Sharma	J. Sharma	
13.	Kalpana Deoras Suhagpure	9579236712	kalpanasuhagpure@gmail.com			ABSENT			
14.	Mansi Diwakar Raut	7385114931	mansiraut451@gmail.com			ABSENT			
15.	Mansi Ishwar Mate	8468891807	mansi19182@gmail.com						
16.	Niket Yuvraj Thakre	7378899087	niket thakre 82@gmail.com	N Thakre	N Thakre	N Thakre	N Thakre	N Thakre	
17.	Pooja Suresh Itankar	9156973252	poojaitankar987@gmail.com			ABSENT			
18.	Prajwal Surendra Bhoyar	8806434634	Prajwal6738@gmail.com						
19.	Rohit Ashok Parate	9373097295	paraterohit@gmail.com			ABSENT			
20.	Rupesh Chandu Bhokre	8805887370	bhokrerupesh@gmail.com	Bhokre	Bhokre	Bhokre	Bhokre	Bhokre	
21.	Sakshi Sudhirkumar Meshram	9145355733	sakshimeshram70@gmail.com.						
22.	Sania Midhat Mohd. Anees Raza	8975726700	midhatania@gmail.com						
23.	Shrawani Rajkumar Warkhede	7058368837	Shrawaniwarkhede@gmail.com	ABSENT		ABSENT			

24.	Shreya Sunil Dhawale	8888264004	shreyadhawale124@gmail.com		ABSENT				
25.	Shubham Chaitra Bisen	7448289544	shubhamolbisen@gmail.com						
26.	Shyamal Dnyaneshwar Nasre	9765943998	shyamalnasre@gmail.com						
27.	Siddharth Gajanan Hirkane	9579092931	hirkanesiddharth1234@gmail.com		ABSENT				
28.	Sumit Sharad Bandebuche	8788212339	sumitbandebuche100@gmail.com						
29.	Surabhi Rajesh Pardhi				ABSENT				
30.	Tejas Vilas Rewade	7796027056	tejasrewade@gmail		ABSENT				
31.	Tina Gajanan Rahangdale	9921776769	tinarahangdale@gmail.com		ABSENT				
32.	Twinkal Ganesh Lokhande	8149176609	twinkallokhande14@gmail.com		ABSENT				
33.	Urmila Vijay Bondre	9376673867	bondreurmila.2000@gmail.com		ABSENT				
34.	Vaibhavi Amar Shende	8010640282	vaibhavi97@gmail.com		ABSENT		V.Ashende		
35.	Vaishnavi Janardan Bedade	8830107397	bedadevaishnavi1@gmail.com						
36.	Vaishnavi Rajesh Lakhe				ABSENT				
37.	Vaishnavi Ruprao Nandpure	9322439316	vaishnavi@.gmail.com		ABSENT				
38.	Vaishnavi Vijay Gadge	9022976449	gadgevaishnavi00@gmail.com						
39.	Vedant Vilas Baxy	8530455716	vedantbaxy2012@gmail.com		ABSENT				

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M.P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

Department of Microbiology

Internal Assessment 2023-24

Class Unit Test Result B.Sc. III (SEM V)

Sr No.	Name of students	Marks Obtained				Signature
		Test-1	Test- 2	Test- 3	Test-4	
		Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV	
1	Aanchal Santosh Singh	14/25	16/25	14/25	15/25	Aanchal Singh
2	Afrina Rahim Sheikh	13/25	14/25	16/25	14/25	Sheikh
3	Aniket Vinod Kukde	ABSENT				
4	Anushree Ghanshyam Chandel	13/25	14/25	13/25	14/25	Chandel
5	Chirayu Bhagwant Dolas	16/25	14/25	13/25	14/25	CBDolas
6	Devesh Sanjay Longadge	16/25	14/25	13/25	18/25	Devesh
7	Gauri Arun Raut	14/25	14/25	13/25	16/25	G Raut
8	Kalyani Chudaram Shahare	13/25	14/25	18/25	14/25	KShah
9	Ketaki Ramchandra Kirpal	16/25	17/25	18/25	14/25	K Kirpal
10	Nikita Shriram Bhave	17/25	14/25	14/25	13/25	N S Bhave
11	Pallavi Chandrabhan Borkar	16/25	14/25	16/25	14/25	[illegible]
12	Prachal Manik Meshram	16/25	13/25	16/25	14/24	Prachal M
13	Pratiksha Sampat Navghare	16/25	16/25	14/25	13/25	P S Navghare
14	Rushabh Madansen Chaudhari	ABSENT			16/25	Chaudhari
15	Sagar Shrikant Bawane	16/25	14/25	21/25	18/25	S S Bawane
16	Samir Prakash Ghumde	16/25	11/25	16/25	18/25	S Ghumde
17	Shital Gopichand Bankar	14/25	23/25	19/25	19/25	S G Bankar
18	Shreya Ravindra Deshmukh	ABSENT				
19	Smruti Mohan Vaidya	18/25	16/25	17/25	16/25	S Vaidya
20	Sudhanshu Ramesh Uikey	ABSENT				
21	Swati Sanjay Longadge	16/25	14/25	21/25	17/25	Swati
22	Vaibhav Arun Malewar	13/25	17/25	14/25	18/25	V Malewar
23	Vaishnavi Tarachand Kapse	14/25	18/25	17/25	16/25	V Kapse

24	Vishakha Devidas Baswante	18/25	25/25	16/25	14/25	
25	Aditya Mithilesh Tiwari	ABSENT				
26	Aman Anil Dongre	18/25	19/25	16/25	14/25	
27	Anagha Ramchandra Sainis	ABSENT				
28	Anjali Anil Mishra	13/25	18/25	12/25	13/25	Anjali
29	Chhakuli Ganesh Wadikar	ABSENT				
30	Darshna Sudhakar Madavi	14/25	16/25	17/25	18/25	
31	Dhanshree Yashwant Newalkar	ABSENT				
32	Gargi Laxmikant Hadge	13/25	14/25	13/25	14/25	
33	Harsh Shankar Kodape	ABSENT				
34	Jagruti Dhanraj Warkar	16/25	14/25	13/25	14/25	
35	Juhi Sheshram Chaudhari	18/25	16/25	13/25	16/25	Juhi
36	Jyoti Jitendra Sharma	ABSENT	16/25	11/25	21/25	J.Sharma
37	Kalpana Deoras Suhagpure	ABSENT				
38	Mansi Diwakar Raut	ABSENT				
39	Mansi Ishwar Mate	24/25	11/25	18/25	13/25	
40	Niket Yuvraj Thakre	12/25	13/25	14/25	16/25	N Thakre
41	Pooja Suresh Itankar	ABSENT				
42	Prajwal Surendra Bhoyar	18/25	16/25	17/25	12/25	
43	Rohit Ashok Parate	ABSENT				
44	Rupesh Chandu Bhokre	16/25	14/25	13/25	14/25	Bhokre
45	Sakshi Sudhirkumar Meshram	16/25	14/25	16/25	14/25	
46	Sania Midhat Mohd. Anees Raza	17/25	13/25	16/25	14/25	
47	Shrawani Rajkumar Warkhede	ABSENT	12/25	ABSENT	13/25	
48	Shreya Sunil Dhawale	ABSENT				
49	Shubham Chaitra Bisen	18/25	19/25	16/25	13/25	
50	Shyamal Dnyaneshwar Nasre	14/25	16/25	11/25	22/25	Nasre
51	Siddharth Gajanan Hirkane	ABSENT				
52	Sumit Sharad Bandebuche	14/25	17/25	18/25	16/25	
53	Surabhi Rajesh Pardhi	ABSENT				
54	Tejas Vilas Rewade	ABSENT				
55	Tina Gajanan Rahangdale	13/25	18/25	16/25	12/25	
56	Twinkal Ganesh Lokhande	13/25	14/25	13/25	21/25	

57	Urmila Vijay Bondre		ABSENT			
58	Vaibhavi Amar Shende		ABSENT			
59	Vaishnavi Janardan Bedade					Vbedade
60	Vaishnavi Rajesh Lakhe		ABSENT			
61	Vaishnavi Ruprao Nandpure		ABSENT			
62	Vaishnavi Vijay Gadge					Vgadge
63	Vedant Vilas Baxy		ABSENT			

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- I

Zoology

Paper-I Life and Diversity of Animals-Nonchordates (Unit 1-2)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) Allquestions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1- Describe the process of Conjugation in Paramoecium 10

OR

Write notes on

(A) Trypanosoma. 05

(B) *Leishmania.* 05

Q.2- Give an account on general characters and classification of porifera Up to classes. 10

OR

Write notes on

(A) Ascanoid canal system in sycon 05

(B) Types of Coral Reefs. 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Amoebiasis
2) Polyp
3) Pellicle
4) Choanocytes
5) Signet ring stage
6) Coral reef

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- I

Zoology

Paper-I Life and Diversity of Animals-Nonchordates (Unit 1-2)

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1) Amoebiasis
2) Polyp
3) Pellicle
4) Choanocytes
5) Signet ring stage
6) Coral reef

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- I

Zoology

Paper-I Life and Diversity of Animals-Nonchordates (Unit 3-4)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1- Describe the elementary idea of parasitic adaptation in helminthes 10

OR

Write notes on
1) Taenia solium life cycle 05
2) Ascaris reproductive system 05

Q.2- Vermiculture and its importance. 10

OR

Write notes on
1) Leech urinogenital system 05
2) Annelida general characters 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Platyhelminthes
2) Scolex
3) Rhabditiform larva
4) Parapodia
5) Trochophore larva
6) Hirudin
7) Plasmodium asexual cycle

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- I

Zoology

Paper-II Environment Biology (Unit 1-2)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q1 Explain in details different zones of atmosphere 10

Or

Write notes on :—

(A) Global distribution of water 05

(B) Non-renewable energy sources 05

Q2 Give details of biotic and abiotic component of pond ecosystem 10

Or

Write notes on :—

(A) Y-shaped energy flow model 05

(B) Food Web 05

Q.3 Write Four or Five lines on the following (any Five) 05

1. Troposphere
2. Consumer
3. Food chain
4. Benthos
5. Energy flow
6. Decomposers

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- I

Zoology

Paper-II Environment Biology (Unit 3-4)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) Allquestions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q. 1 Define biodiversity and explain methods of biodiversity conservation 10

Or

Write notes on :—

(A) Tadoba National Park 05

(B) Wildlife Conservation Act 1972 05

Q. 2 Describe the sources, effect and control of Water pollution. 10

Or

Write notes on :—

(A) Biomagnification 05

(B) Acid Rain 05

Q. 3 Write Four or Five lines on the following (any Five) 05

1. Endemic species
2. Habitat destruction
3. Western ghats
4. Sedimentary rocks
5. Smog
6. Fossil fuel

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF ZOOLOGY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-I

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Aishwarya Satish Thakre	7722092402	aishwaryathakre643@gmail.com	Athakre	Athakre	Athakre	Athakre	Athakre	
2.	Akansha Santosh Tomar	8237507716	akanshatomar2020@gmail.com	ATomar	ATomar	ATomar	ATomar		
3.	Aniket Vijay Valukar	9970682144	aniket.valukar@gmail	Aniket	Aniket	Aniket	Aniket		
4.	Anjali Narendra Timma	9320673094	Anjalitimma84@gmail.com	Atimma	Atimma	Atimma	Atimma		
5.	Anjali Rajenraprasad Tiwari	7840023451	at722819@gmail.com	Anjali	Anjali	Anjali	Anjali		
6.	Anushka Ashok Bhimgade								
7.	Arish Shabbir Sheikh								
8.	Arti Ganesh Katre	9359584324	laxmikatre2000@gmail.com	Arti	Arti	Arti	Arti		
9.	Ashwin Shivprasad Kashyap								
10.	Atharva Aniruddha Astikar	8080709712	atharvaastikar22@gmail.com	A.A.Astikar	A.A.Astikar	A.A.Astikar	A.A.Astikar		
11.	Ayush Suresh Dhurve								
12.	Bhumika Dewadas Kurre	7517630283	bhumikakurre71@gmail.com		Bkurre	T	Bkurre		
13.	Dipty Anil Zoting								
14.	Divya Dumdeo Mankar								
15.	Ekta Dipak Chaudhari	9022804173	chaudhariekta@gmail.com	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	
16.	Gaurav Dharmraj Gharjale								

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
17.	Isha Devidas Rewatkar	7498719275	ishasewatkar2005@gmail.com	Rewatkar	Rewatkar	Rewatkar	Rewatkar	Rewatkar	
18.	Jamuna Soma Pallo	9405317042	Jamunapallo.123.@gmail	Pallo	Pallo	Pallo	Pallo		
19.	Jayant Ravindra Rohankar								
20.	Jayashri Jaykishor Pandit	7387670246	Jayashriipandit135@gmail.	Pandit	Pandit	Pandit	Pandit	Pandit	
21.	Jyoti Jayprakash Singh								
22.	Kallyani Chinduji Mojankar	7796048534	kallyanimojankar08@gmail.com		K.C. mojankar		K.C. mojankar		
23.	Kalyani Balram Katre	8459277408		Kalyani	Kalyani	Kalyani	Kalyani		
24.	Kanak Harendra Vijaywar	9765280017	khvijaywar@gmail.com	khvijay.	khvijay.	khvijay.	khvijay.		
25.	Kashish Kanthiram Chatur	8208770024	kashishchatur18@gmail.com	Chatur	Chatur	Chatur	Chatur	Chatur	
26.	Khushboo R Rahangdale	9322336852	khushoorahangdale6@gmail.com	Khushboo	Khushboo	Khushboo	Khushboo		
27.	Khushi Surajbhan Tijare	9209295043	khushitijare2020@gmail.com	Tijare	Tijare	Tijare	Tijare		
28.	Lukeshwari Maroti Shendre	7558321257	marotishendre728@gmail.com	Lukeshwari	Lukeshwari	Lukeshwari	Lukeshwari	Lukeshwari	
29.	Manalee Manohar Sirsat	8975246115	manaleesirsat@gmail.com	MS	MS	MS	MS		
30.	Mayur Sonu Thakur	8055265379	tsonu1579@gmail.com	M	Mayur		Mayur		
31.	Mayuri Maroti Tumdam	9309579974	mayuTumdam21@gmail.com	Tumdam	Tumdam	Tumdam	Tumdam		
32.	Minal Gajanan Verulkar	9921602434	minalverulkar28@gmail.com	Verulkar	Verulkar	Verulkar	Verulkar		
33.	Mohd. Azhar Sheikh	7770054197	ajju11077@gmail.com			A.			
34.	Nirali Vilas Budhe	9209020324	nirali budhe@gmail.com	Nirali	Nirali	Nirali	Nirali	Nirali	
35.	Nisha Dhansingh Bavankar								
36.	Nisha Dhansingh Bavankar								

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
37.	Nisha Sohanlal Patle								
38.	Nupur Umesh Selokar								
39.	Pallavi Surajlal Bijewar	9529205724	pallavibijewar96@gmail.com	Pallavi	Pallavi				
40.	Payal Pramod Sontakke	8208615204	sontakkepayal138@gmail.com	Payal	Payal	Payal	Payal	Payal	
41.	Piyush Premraj Dewase	7972600561	Piyushdewase@gmail.com	P.Dewase	P.Dewase	P.Dewase	P.Dewase	P.Dewase	
42.	Prajwal Devendra Hatwar	8459481067	devendrahatwar5@gmail.	Hatwar	Hatwar	Hatwar	Hatwar	Hatwar	
43.	Pranali Yadorao Rahangdale	9834535911	Pranalirahangdale83	Pranali	Pranali	Pranali	Pranali		
44.	Priyanka Budharam Kamble	7720011719	asthakamble5@gmail.com		Kamble		Kamble		
45.	Priyanka Singh								
46.	Purva Ranjitsingh Rajput	7498614295	Purvarajput@gmail.com	Rajput	Rajput	Rajput	Rajput		
47.	Rashmi Anilingole	9975197565	rashmiingole@23gmail.com	R.A.Ingole	R.A.Ingole	R.A.Ingole	R.A.Ingole	R.A.Ingole	
48.	Riya Yogesh Agashe	9175017976	Reeiyaagashe17@gmail.com	Agashe	Agashe	Agashe	Agashe		
49.	Rohan Surjitkumar Tiwari	7841815908	rt102.kl@gmail.com	Rohan	Rohan	Rohan	Rohan		
50.	Rohit Arun Lanjewar	9067218946	rohitlanjewar1135@gmail.com	Rlanjewar	Rlanjewar	Rlanjewar	Rlanjewar	Rlanjewar	
51.	Ruchika Shailesh Undersayare								
52.	Saket Sanjiv Bansod	7775829526	saketbansod358@gmail.com	Bansod	Bansod	Bansod	Bansod	Bansod	
53.	Sakshi Dnyaneshwar Pardhi	9370213199	Sakshipardhi122@gmail.com	Pardhi	Pardhi	Pardhi	Pardhi	Pardhi	
54.	Sanket Vijay Choudhari	7798413895	Sanketchoudhari7+y@gmail.com	S.V.Choudhari	S.V.Choudhari	S.V.Choudhari	S.V.Choudhari	S.V.Choudhari	
55.	Sapana Prabhashankar Bhagat	7219069387	bhagatsapna6776@gmail.com	Sapna	Sapna	Sapna	Sapna	Sapna	
56.	Shrushti Khushalji Naik								

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
57.	Shruti Vijay Shendre								
58.	Siddhi Anand Kitkaru	7666618195	siddhikitkaru@gmail.com	Siddhi	Siddhi	Siddhi	Siddhi	Siddhi	
59.	Sparshika Rajendra Hadke								
60.	Suhani Onkar Bhagat	8999321164	bhagatsuhani3@gmail.com	Bhagat	Bhagat	Bhagat	Bhagat		
61.	Suhani Ravindra Raut	7499845381	SuhaniRaut868@gmail.com	Raut	Raut	Raut	Raut		
62.	Tanuj Ramesh Shendre	7822898251	tanujshendrellw@gmail.com	T.R.Shendre	T.R.Shendre	T.R.Shendre	T.R.Shendre	T.R.Shendre	
63.	Trisha Dhaniram Jamaiwar								
64.	Trusha Sharad More	9087293904	Trushamore817@gmail.com	More	More	More	More		
65.	Umesh D Raut	9022575049	umesh.raut.2003@gmail.com	Raut	Raut	Raut	Raut		
66.	Vaishnavi Mahesh Kursange	7038029978	kursangevaishnavi@gmail.com	Kurkursange	Kurkursange	Kurkursange	Kurkursange		
67.	Vaishnavi Rajesh Chavan								
68.	Vedant Omprakash Manmode	9309025511	Vedant Manmodi@gmail						
69.	Yogini Sanjayrao Dhole	7058825591	yoginidhole79@gmail.com	Dhole	Dhole	Dhole	Dhole		
70.	Yutihika Dinesh Shevate								
71	Namrata Hundiwale	8080305814	namrata@gmail.com	Namrata	Namrata	Namrata	Namrata	Namrata	

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ZOOLOGY
Internal Assessment 2023-24
Rough Marksheet
B. Sc. Sem.-I

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
1.		Aishwarya Satish Thakre	02	02	02	02	08	04	01	02	02	09	
2.		Akansha Santosh Tomar	03	02	02	02	09	03	02	01	02	08	
3.		Aniket Vijay Valukar	03	02	02	01	08	04	02	01	02	09	
4.		Anjali Narendra Timma	04	01	01	02	08	03	02	02	01	08	
5.		Anjali Rajenraprasad Tiwari	03	02	01	01	07	02	02	02	02	08	
6.		Anushka Ashok Bhimgade	03	0	0	02	05	04	0	0	02	06	
7.		Arish Shabbir Sheikh	04	0	0	02	06	03	0	0	02	05	
8.		Arti Ganesh Katre	02	02	02	02	08	04	01	01	01	07	
9.		Ashwin Shivprasad Kashyap	04	0	0	02	06	03	0	0	02	05	
10.		Atharva Aniruddha Astikar	03	02	02	01	08	04	02	01	02	09	
11.		Ayush Suresh Dhurve	03	0	0	02	05	04	0	0	02	06	
12.		Bhumika Dewadas Kurre	03	01	02	01	07	02	02	02	02	08	
13.		Dipty Anil Zoting	04	0	0	02	06	03	0	0	02	05	
14.		Divya Dumdeo Mankar	03	0	0	02	05	04	0	0	02	06	
15.		Ekta Dipak Chaudhari	02	02	02	02	08	04	01	02	02	09	
16.		Gaurav Dharmraj Gharjale	04	0	0	02	06	03	0	0	02	05	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
17.		Isha Devidas Rewatkar	03	01	02	01	07	04	01	02	02	09	
18.		Jamuna Soma Pallo	04	02	01	01	08	02	02	02	02	08	
19.		Jayant Ravindra Rohankar	04	0	0	02	06	03	0	0	02	05	
20.		Jayashri Jaykishor Pandit	04	02	01	02	09	02	02	02	02	08	
21.		Jyoti Jayprakash Singh	02	0	0	02	04	03	0	0	02	05	
22.		Kallyani Chinduji Mojankar	04	01	02	02	09	04	02	02	02	10	
23.		Kalyani Balram Katre	03	02	01	02	08	04	01	02	02	09	
24.		Kanak Harendra Vijaywar	03	01	01	02	07	04	02	01	02	09	
25.		Kashish Kanthiram Chatur	02	02	02	02	08	04	02	02	01	09	
26.		Khushboo R Rahangdale	04	02	02	02	10	04	01	02	02	09	
27.		Khushi Surajbhan Tijare	04	01	02	02	09	04	02	02	02	10	
28.		Lukeshwari Maroti Shendre	03	01	01	02	07	02	02	02	02	08	
29.		Manalee Manohar Sirsat	02	02	02	02	08	04	01	02	02	09	
30.		Mayur Sonu Thakur	04	01	02	02	09	03	01	02	02	08	
31.		Mayuri Maroti Tumdam	03	01	02	02	08	03	02	02	02	09	
32.		Minal Gajanan Verulkar	03	01	02	01	07	02	02	02	02	08	
33.		Mohd. Azhar Sheikh	03	02	01	01	7	02	02	02	01	07	
34.		Nirali Vilas Budhe	02	02	02	02	08	04	02	02	01	09	
35.		Nisha Dhansingh Bavankar	03	0	0	02	05	04	0	0	02	06	
36.		Nisha Dhansingh Bavankar	04	0	0	02	06	02	0	0	02	04	
37.		Nisha Sohanlal Patle	02	0	0	02	04	03	0	0	02	05	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
38.		Nupur Umesh Selokar	04	0	0	02	06	03	0	0	02	05	
39.		Pallavi Surajlal Bijewar	02	01	02	01	06	03	01	01	02	07	
40.		Payal Pramod Sontakke	03	01	02	01	07	03	01	01	01	06	
41.		Piyush Premraj Dewase	04	02	02	02	10	03	02	02	02	09	
42.		Prajwal Devendra Hatwar	02	02	02	02	08	04	02	01	02	09	
43.		Pranali Yadorao Rahangdale	03	02	02	02	09	03	02	01	02	08	
44.		Priyanka Budharam Kamble	03	02	01	01	07	02	02	02	02	08	
45.		Priyanka Singh	04	0	0	02	06	03	0	0	02	05	
46.		Purva Ranjitsingh Rajput	04	04	02	02	08	04	02	01	02	09	
47.		Rashmi Anilingole	04	02	02	01	09	04	02	02	02	10	
48.		Riya Yogesh Agashe	03	02	02	02	09	03	01	02	02	08	
49.		Rohan Surjitkumar Tiwari	03	02	01	01	07	04	01	02	02	09	
50.		Rohit Arun Lanjewar	02	02	01	02	07	02	02	02	02	08	
51.		Ruchika Shailesh Undersayare	03	0	0	02	05	04	0	0	02	06	
52.		Saket Sanjiv Bansod	03	01	01	02	07	02	02	02	02	08	
53.		Sakshi Dnyaneshwar Pardhi	04	01	01	02	08	03	02	01	02	08	
54.		Sanket Vijay Choudhari	03	02	01	01	07	03	01	01	02	07	
55.		Sapana Prabhashankar Bhagat	02	02	02	01	07	04	01	01	02	08	
56.		Shrushti Khushalji Naik	02	0	0	02	04	03	0	0	02	05	
57.		Shruti Vijay Shendre	03	0	0	02	05	04	0	0	02	06	
58.		Siddhi Anand Kitkaru	04	02	02	02	10	04	01	02	02	09	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
59.		Sparshika Rajendra Hadke	03	0	0	02	05	04	0	0	02	06	
60.		Suhani Onkar Bhagat	03	02	01	02	08	04	02	01	02	09	
61.		Suhani Ravindra Raut	03	02	01	01	07	03	02	02	01	08	
62.		Tanuj Ramesh Shendre	04	02	02	02	10	04	02	01	02	09	
63.		Trisha Dhaniram Jamaiwar	02	0	0	02	04	04	0	0	02	06	
64.		Trusha Sharad More	03	02	02	02	09	04	02	02	02	10	
65.		Umesh D Raut	03	02	01	01	07	03	01	02	02	08	
66.		Vaishnavi Mahesh Kursange	04	02	01	02	09	04	02	02	02	10	
67.		Vaishnavi Rajesh Chavan	02	0	0	01	03	03	0	0	02	05	
68.		Vedant Omprakash Manmode	03	02	01	01	07	04	01	01	02	08	
69.		Yogini Sanjayrao Dhole	03	01	02	01	07	02	02	01	02	07	
70.		Yutihika Dinesh Shevate	03	0	0	02	05	02	0	0	02	04	
71.		Namrata hundiwale	02	02	02	02	08	03	02	02	02	09	

PAPER-I: C1= Attendance, C2= Test-1, C3=Test-2, C4=Assignment/Excursion/Visit/Seminar, etc.
PAPER-II: C1= Attendance, C2= Test-3, C3=Test-4, C4=Assignment/Excursion/Visit/Seminar, etc.

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Prof. Pitambar Humane
IQAC Coordinator

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P Deo Memorial
Science College, Nagpur

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- III

Zoology

Paper-I Life and Diversity of Animals-chordates (Unit 1-2)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) Allquestions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1- Give an account of parental care in Amphibia . 10

OR

Write notes on

(A) General characters of cyclostomata. 05

(B) Sense organ of Amphioxus 05

Q.2- Drescribethe digestive system of Herdmania 10

OR

Write notes on

(A) Accessory respiratory organ in catfishes 05

(B) The gill-arch theory 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Hogfish
2) Osteichthys
3) Retrogressive metamorphosis
4) Osteichthys
5) Urodela
6) Oceanodromous

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- III

Zoology

Paper-I Life and Diversity of Animals-chordates (Unit 3-4)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) Allquestions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1- Describe the process of spermatogenesis 10

OR

Write notes on
(A) Types of Scales in fishes 05
(B) Types of eggs 05

Q.2- Describe the development of respiratory organ in frog. 10

OR

Write notes on
(A) Morphogenetic movement in Gastrula of Frog 05
(B) External gill stage of frog 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Fertilizin

2) Fate map

3) Blastula

4) Fry

5) Visceral arch

6) Homoblastic clevage

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Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM-III

Zoology

Paper-II Genetics (Unit 1-2)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1 What is Epistasis? Explain dominant and recessive epistasis with suitable example 10

OR

Write notes on :–

(A) Codominance. 05

(B) Incomplete Dominance. 05

Q.2 Describe in detail haemoglobin disorders. 10

OR

Write notes on :–

(A) Kappa particles in *Paramoecium*. 05

(B) Linkage.. 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Alleles
2) Testcross
3) Phenotype
4) Single cross over
5) Complete linkage
6) Cistron

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Dharampeth M. P. Deo Memorial Science College, Nagpur

RTM Nagpur University Unit test 2023

Bachelor of Science (B.Sc.) SEM-III

Zoology

Paper-II Genetics (Unit 3-4)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1 What is sex determination? Explain genic balance theory in detail. 10

OR

Write notes on:–

(A) Translocation of chromosome 05

(B) Klinefelter syndrome 05

Q.2 Give an account of DNA Fingerprinting 10

OR

Write notes on:–

(A) Conditions for the Hardy-Weinberg Equilibrium 05

(B) Dominant lethal genes. 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Sex in Bonelia
2) Zygotic lethal
3) Trisomy
4) Induced mutation
5) terminal deletion
6) Benefit of sperm banking

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ZOOLOGY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-III

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Aakansha K Khobragade	7972228707	aakanshakhobragade7@gmail						
2.	Aakansha Yogesh Mairal	8010923662	aakanshamairal@gmail.com						
3.	Aasiyakhatoon S Hussain	9359259741	hussainaaiya@gmail						
4.	Abhay Puranlal Tembhare	8975363145	abhay230102@gmail.						
5.	Amisha Devraj Arkara	7666559171	Arkara Amisha@gmial						
6.	Anjali Kishor Meshram	8855819748	anjalimeshram2023@gmail						
7.	Anshul Ratanlal Yadav								
8.	Ashlesha Rajesh Khadgi	7820929579	Ashaleshakhadgi@gmail.com						
9.	Ashwini A. Lanjewar								
10.	Chanchal K Waghwani	7796016894	waghwanitara@gmail.com						
11.	Dhanshree M. Neware	9359909913	dhanashrineware786@gmail						
12.	Dolly Krushna Wanjari	9326019219	Krishnawanjari12345@gmail.com						
13.	Gauri Ramesh Bhoyar	8668335876	gunjanbhoyar39@gmail.com						
14.	Ghanashree U Dhomane	7774900320	dhomaneghanashree@gmail.com						
15.	Gunjan Ishwar Bhoyar	7666799586	gunjanbhoyar@gmail.com						
16.	Himanshi J. Kalbande	9665301444	kalbandehimanshi@gmail.com						

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
17.	Kalyani R. Sindram	8446539622	Sindramkalani@gmail.co						
18.	Kartika Mohan Deshmukh	9649720461	Kartikamd20@gmail.com						
19.	Khushi Kamlakar Rewade								
20.	Khushi Shashikant Bharti								
21.	Krutika Subhash Pokale	9021533341	pokalekrutika6@gmail.com						
22.	Lucky A. Viswakarma	9579660186	lvvishwakarma239@gmail.com						
23.	Manthan Mukesh Todase	8080870630	manthantodase@gmail.com						
24.	Meenal A. Choudhari	9529014604	meenalchoudhary2004@gmail.com						
25.	Muskan Vinay Kulkarni	9156889239	Muskankulkarni@gmail.com						
26.	Neha Lakhand Wanjari	9373832266	nehawanjari733@gmail.com						
27.	Pranali Yashwant Chavhare	9699654562	pranalichavhare68@gmail.com						
28.	Pranjali Liladhar Meshram	7888080054	pranjalimeshram85@gmail.com						
29.	Pratiksha Mangal Meshram	8459070338	meshrampratiksha@gmail.com						
30.	Priya Bhagwan Sharma	8010764549	Priyasharma19012004@gmail.com						
31.	Punesh Bhagatram Darro								
32.	Rashi R. Satpute	9145486923	rashisatpute77@gmail.ca						
33.	Ritika R. Sondhiya	9175581655	ritikarsondhiya@gmail.com						
34.	Riya Anil Singh	9595649331	riyaas2307@gmail.com						
35.	Riya Rajkumar Rajbhar	8600256951	riyarajbhar18@gmail.com						
36.	Rohan H. Meshram	7499956761	rohanmeshram353@gmal						

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
37.	Sakshi S. Choudhary	8766852462	Sakshichoudhary111333@gmail.com	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	
38.	Samiksha A Khobragade	9156906097	khobragadesamiksha30@gmail	Khobragade	Khobragade	Khobragade	Khobragade	Khobragade	
39.	Samyak Madhukar Hadke	7020171304	Samyakhadke@gmail.com						
40.	Sanjana Suresh Tabhane	9699186571	tabhanesanjana@gmail.com	Sanju	Sanju	Sanju		Sanju	
41.	Shreya Ajitkumar Jha	9763925971	Shreyajha2512@gmail.com						
42.	Shruti Surendra Channekar	9284623487	shrutichannekar@gmail.com					Channekar	
43.	Siddhi Bhagwat Tiwari	8087143696	siddhitiwari0721@gmail.com	Siddhi Tiwari	Siddhi Tiwari	Siddhi Tiwari	Siddhi Tiwari	Siddhi Tiwari	
44.	Sonali Gopal Choudhari	8956055003	sonalichoudhari@gmail.com	Schaudhary	Schaudhary	Schaudhary	Schaudhary	Schaudhary	
45.	Sunaina Premlal Chichonde	8530970132	Sunainachichonde123@gmail.com	Sunaina	Sunaina	Sunaina	Sunaina	Sunaina	
46.	Umang Gandhar Warthi	9322428500	umangwarthi@gmail.com	Warthi	Warthi	Warthi	Warthi	Warthi	
47.	Vaidehi Pawan Thote	7558499191	vaidehithote27@gmail.com	Vaidehi	Vaidehi	Vaidehi	Vaidehi	Vaidehi	
48.	Yashshree Ashok Pawar	9359117016	yashashreepawar31@gmail.com	Y. Pawar	Y. Pawar	Y. Pawar	Y. Pawar	Y. Pawar	
49.	Khushi Dinesh Prasad								
50.									

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ZOOLOGY
Internal Assessment 2023-24
Rough Marksheet
B. Sc. Sem.-III

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
1.		Aakansha K Khobragade	4	2	1	1	8	4	2	1	1	8	
2.		Aakansha Yogesh Mairal	4	2	2	2	10	4	2	2	2	10	
3.		Aasiyakhatoon S Hussain	4	2	2	2	10	4	2	2	2	10	
4.		Abhay Puranlal Tembhare	4	1	2	2	9	4	2	2	1	9	
5.		Amisha Devraj Arkara	4	2	1	1	8	4	2	1	1	8	
6.		Anjali Kishor Meshram	4	2	2	1	9	4	2	2	1	9	
7.		Anshul Ratanlal Yadav	4	2	1	1	8	4	2	1	1	8	
8.		Ashlesha Rajesh Khadgi	4	2	2	1	9	4	2	1	1	8	
9.		Ashwini A. Lanjewar	4	2	2	1	9	4	2	2	1	9	
10.		Chanchal K Waghmare	4	2	2	2	10	4	2	2	2	10	
11.		Dhanshree M. Neware	4	2	2	1	9	4	2	2	2	10	
12.		Dolly Krushna Wanjari	4	2	2	2	10	4	2	1	2	9	
13.		Gauri Ramesh Bhoyar	4	2	2	2	10	4	2	2	2	10	
14.		Ghanashree U Dhomane	4	2	2	2	10	4	2	2	2	10	
15.		Gunjan Ishwar Bhoyar	4	2	1	2	9	4	2	2	1	9	
16.		Himanshi J. Kalband	4	2	1	1	8	4	2	1	1	8	
17.		Kalyani R. Sindram	4	2	2	1	9	4	2	1	1	8	
18.		Kartika Mohan Deshmukh	4	2	2	2	10	4	2	2	2	10	
19.		Khushi Kamlakar Rewade	4	1	1	1	7	4	1	1	1	7	
20.		Khushi Shashikant Bharti	4	1	1	1	7	4	1	1	1	7	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
21.		Krutika Subhash Pokale	4	2	2	2	10	4	2	2	2	10	
22.		Lucky A. Viswakarma	4	2	2	2	10	4	2	2	2	10	
23.		Manthan Mukesh Todase	4	2	1	2	9	4	2	2	1	9	
24.		Meenal A. Choudhari	4	2	2	1	9	4	2	1	2	9	
25.		Muskan Vinay Kulkarni	4	2	2	1	9	4	2	1	2	9	
26.		Neha Lakhand Wanjari	4	2	2	2	10	4	2	2	1	9	
27.		Pranali Yashwant Chavhare	4	2	2	2	10	4	2	2	1	9	
28.		Pranjali Liladhar Meshram	4	2	1	2	9	4	2	2	1	9	
29.		Pratiksha Mangal Meshram	4	2	2	1	9	4	2	2	1	9	
30.		Priya Bhagwan Sharma	4	2	2	2	10	4	2	2	2	10	
31.		Punesh Bhagatram Darro	4	1	1	0	6	4	1	0	1	6	
32.		Rashi R. Satpute	4	2	2	2	10	4	2	2	1	9	
33.		Ritika R. Sondhiya	4	2	1	1	8	4	2	2	1	9	
34.		Riya Anil Singh	4	2	2	2	10	4	2	2	2	10	
35.		Riya Rajkumar Rajbhar	4	2	2	1	9	4	2	2	1	9	
36.		Rohan H. Meshram	4	2	2	2	10	4	2	2	2	10	
37.		Sakshi S. Choudhary	4	2	2	1	9	4	2	2	2	10	
38.		Samiksha A Khobragade	4	2	2	1	9	4	2	2	1	9	
39.		Samyak Madhukar Hadke	4	2	2	1	9	4	2	2	1	9	
40.		Sanjana Suresh Tabhane	4	2	2	2	10	4	2	2	2	9	
41.		Shreya Ajitkumar Jha	4	2	2	2	10	4	2	2	2	10	
42.		Shruti Surendra Channekar	4	2	2	1	9	4	2	2	1	9	
43.		Siddhi Bhagwat Tiwari	4	2	2	2	10	4	2	2	2	10	
44.		Sonali Gopal Choudhari	4	2	2	2	10	4	2	2	1	9	
45.		Sunaina Premlal Chichonde	4	2	2	2	10	4	2	2	2	10	
46.		Umang Gandhar Warthi	4	2	2	2	10	4	2	2	2	10	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
47.		Vaidehi Pawan Thote	4	2	2	1	9	4	2	2	2	10	
48.		Yashshree Ashok Pawar	4	2	2	2	10	4	2	2	2	10	
49.		Khushi Dinesh Prasad	4	1	1	0	6	4	1	1	1	7	
50.		Chiranjiv S. Gaikhiwe	4	1	1	0	6	4	1	1	1	7	
51.													
52.													
53.													
54.													
55.													
56.													
57.													
58.													

PAPER-I: C1= Attendance, C2= Test-1, C3=Test-2, C4=Assignment/Excursion/Visit/Seminar, etc.
PAPER-II: C1= Attendance, C2= Test-3, C3=Test-4, C4=Assignment/Excursion/Visit/Seminar, etc.

Name & Signature of Teacher In-Charge

Prof. Pitambar Humane
IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P Deo Memorial
Science College, Nagpur

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- V

Zoology

Paper-I General Mammalian Physiology I (Unit 1-2)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) Allquestions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1- Describe in detail factors affecting enzyme activity. 10

OR

Write notes on

(A) Chemical Nature of enzymes. 05

(B) Properties of enzymes 05

Q.2- Give an account on digestion and absorption of carbohydrates 10

OR

Write notes on

(A) Structure of liver 05

(B) Digestion of lipids 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Enzyme– Substrate complex
2) Catalyst
3) Apoenzyme
4) Vitamin D
5) Irreversible inhibitors
6) Succus entericus

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- V

Zoology

Paper-I General Mammalian Physiology I (Unit 3-4)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) Allquestions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1 Describe mechanism of transport of CO2 and Oxygen 10

OR

Write short notes on :—

(A) Hemoglobin. 05

(B) Effects of smoking on health. 05

Q. 2 Describe mechanism of blood coagulation. 10

OR

Write short notes on :—

(A) Composition and functions of blood. 05

(B) Blood pressure. 05

Q.3 Write short notes on: 05

1. Respiratory disorders
2. Inspiration
3. Haemoglobin
4. Intrinsic and extrinsic factors
5. Composition of blood
6. ECG

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- V

Zoology

Paper-II Applied Zoology I (Aquaculture and Economic Entomology) (Unit 1-2)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) Allquestions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1 Describe the process of fish breeding by Chinese circular Hatcheries. 10

OR

Write short notes on:—

(A) Site selection for fish farm. 05

(B) Fish products. 05

Q.2 Give an account on breeding of aquarium fishes in detail. 10

OR

Write short notes on:—

(A) Fish diseases caused by Fungi. 05

(B) Maintenance of aquarium. 05

Q.5 Write Four or Five lines on the following (any Five) 05

1) Stocking pond.
2) Polyculture.
3) Fish glue
4) Kissing gaurami
5) Costiasis
6) Aereator

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Unite-Wise Examination 2023

Bachelor of Science (B.Sc.) SEM- V

Zoology

Paper-II Applied Zoology I (Aquaculture and Economic Entomology) (Unit 3-4)

[Time: 1.5 Hour] **[Maximum Marks: 25]**

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q.1 Give a detailed account on Biological control of pests. 10

OR

Write notes on :–

(A) Life history of *Sitophilus Oryzae*. 05

(B) Housefly. 05

Q.2 Describe the structure of movable frame hive and economic importance of Apiculture. 10

OR

Write notes on :–

(A) Tasar silkworm. 05

(B) Lac production and its importance. 05

Q.3 Write Four or Five lines on the following (any Five) 05

1) Pyrethroids
2) Royal Jelly
3) Pollen
4) Parasite
5) HCN
6) Reeling

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ZOOLOGY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-V

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
1.	Abhishek D Deshbhratar								
2.	Aditya Gajanan Deulkar	9028915716	deulkaraditya2[illegible]@gmail.com						
3.	Aditya Mithilesh Tiwari								
4.	Aman Anil Dongre	7709217312	amandongre2003@gmail.com						
5.	Anagha Ramchandra Sainis	8073972574	anagha sainis@gmail.					A.R. Sainis	
6.	Anjali Anil Mishra	9325604513	anjalimishra4954@gmail.com						
7.	Ankita Manoj Mishra	8421293148	mishraankita4689@gmail.com						
8.	Ashlesha Umesh Sangole	9503998469	Ashleshasangole94@						
9.	Asmita Dhanraj Charjan	7357005732	asmitacharjan@gmail						
10.	Ayush Ajay Kadam	9163018263	ak28ss036@gmail.						
11.	Chhakuli Ganesh Wadikar	9325047907	chhakuwadikar@gmail.						
12.	Darshna Sudhakar Madavi								
13.	Dhanshree Y Newalkar	9356516280	newalkardhanshri						
14.	Gargi Laxmikant Hadge	7972076671	gargi.hadge@gmail.com						
15.	Harsh Shankar Kodape	9604677672	harshkodape[illegible]@gmail.com						
16.	Harshad Vinod Warthi								

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
17.	Jagruti Ajit Rawat								
18.	Jagruti Dhanraj Warkar	7447366023	jagrutiwarkar09@gmail.com						
19.	Juhi Sheshram Chaudhari	8669248944	chaudharijuhi120@gmail.com	Juhi	Juhi	Juhi	Juhi	Juhi	
20.	Jyoti Jitendra Sharma	8669736380	jyotis8390@gmail.com	J. Sharma	J. Sharma	J. Sharma	J. Sharma		
21.	Kalpana Deoras Suhagpure								
22.	Khushabu H Choudhari	7262074960	khushabuchoudhari38@gmail.com						
23.	Mansi Diwakar Raut								
24.	Mansi Ishwar Mate	8465891807	mansi19182@gmail.com						
25.	Mrunalini S Ramteke	9146003783	mrunalisramteke0828@gmail.com						
26.	Muskan Rameshwar Yadav	9579492617	muskanyadav1225@gmail.com						
27.	Niket Yuvraj Thakre	7378899085	niketthakre82@gmail.com						
28.	Nikhil Ramkrushna Raut	9022680159	[illegible]6541@gmail.com						
29.	Nikita Shyam Barapatre	7058628053	nikitabarapatre05@gmail.com						
30.	Pooja Suresh Itankar								
31.	Prajwal Surendra Bhoyar	8010434634	prajwalb73@gmail.com						
32.	Riya Raju Kulmethe								
33.	Rohit Ashok Parate								
34.	Rupesh Chandu Bhokre	8805887370	bhokrerupesh@gmail.com						
35.	Sakshi S Meshram	9145355733	sakshimeshram@210gmail.com						
36.	Sakshi Shankar Jambhule								

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
37.	Sania M Mohd. A Raza	8975726700	midhatraza@gmail.com						
38.	Shabir Rabiul Shaikh								
39.	Shikha Jawaharlal Yadav	9569714465	Shikhayadav2020	S.J.Yadav	S.J.Yadav		S.J.Yadav	S.J.Yadav	
40.	Shrawani R Warkhede								
41.	Shreya Sanghashree Bagade								
42.	Shreya Sunil Dhawale								
43.	Shruti Mangesh Pawar								
44.	Shruti Pramod Masram	8308657972	shrutimasram@gmail.com						
45.	Shubham Chaitra Bisen	7448289544	shubhamolbisen@gmail.com						
46.	Shyamal D Nasre	9765943998	shyamalnasre@gmail.com						
47.	Siddharth Gajanan Hirkane								
48.	Subbu Rajnikant Mishra								
49.	Sumit Sharad Bandebuche	8788212339	sumitbandebuche100@gmail.com						
50.	Surabhi Rajesh Pardhi								
51.	Sushma Gangadhar Gurnule								
52.	Tanushree Raju Bhagat								
53.	Tejas Vilas Rewade								
54.	Tina Gajanan Rahangdale								
55.	Twinkal Ganesh Lokhande								
56.	Urmila Vijay Bondre								

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1 Paper-I Unit-I & II	Test-2 Paper-I Unit-III& IV	Test-3 Paper-II Unit-I & II	Test-4 Paper-II Unit-III & IV	Assignment or any other activity	Remarks if any
57.	Vaibhavi Amar Shende	8080640782	vaibhavishende9@gmail.com					V.A.Shende	
58.	Vaishali Sanjay Patle	9322600647	vaishalipatle.175@gmail.com	Patle	Patle		Patle	Patle	
59.	Vaishnavi Janardan Bedade	8830107397	bedadevaishnavi1@gmail.com	Bedade	Bedade	Bedade	Bedade	Bedade	
60.	Vaishnavi Rajesh Lakhe								
61.	Vaishnavi Ruprao Nandpure								
62.	Vaishnavi Vijay Gadge	9022976449	gadgevaishnavi00@gmail.com	Gadge	Gadge	Gadge	Gadge	Gadge	
63.	Varsha Ramprasanna Tiwari	8408097938	varshatiwari7796@gm	Varsha	Varsha		Varsha	Varsha	
64.	Vedant Vilas Baxy								
65.	Yashashree Pramod Charde	9769008924	yashashreecharde@gmail.com	Y.P.C	Y.P.C	Y.P.C	Y.P.C	Y.P.C	
66.	Yukti Suresh Choudhary	7020953938	yukti.choudhary1502@gmail.com		Yukti	Yukti	Yukti	Yukti	
67.	Devashish D. Bisen	7767861231	Devashishbisen31@gm		Bisen				
68.									
69.									
70.									

Name & Signature of Teacher In-Charge

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Prof. Pitambar Humane
IQAC Coordinator

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ZOOLOGY
Internal Assessment 2023-24
Rough Marksheet
B. Sc. Sem.-V

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
1.		Abhishek D Deshbhratar	2	2	1	1	6	2	2	1	1	6	
2.		Aditya Gajanan Deulkar	4	2	2	2	10	4	2	2	2	10	
3.		Aditya Mithilesh Tiwari	2	2	1	1	6	2	2	1	1	6	
4.		Aman Anil Dongre	4	2	2	2	10	4	2	2	2	10	
5.		Anagha Ramchandra Sainis	4	0	1	2	7	4	0	1	2	7	
6.		Anjali Anil Mishra	4	2	2	1	9	4	2	2	1	9	
7.		Ankita Manoj Mishra	4	2	1	2	9	4	2	1	2	9	
8.		Ashlesha Umesh Sangole	4	2	1	2	9	4	2	1	2	9	
9.		Asmita Dhanraj Charjan	4	1	2	2	9	4	1	2	2	9	
10.		Ayush Ajay Kadam	4	2	2	0	8	4	2	1	2	9	
11.		Chhakuli Ganesh Wadikar	4	2	1	2	9	4	1	1	2	8	
12.		Darshna Sudhakar Madavi	2	2	1	1	6	2	1	2	2	7	
13.		Dhanshree Y Newalkar	3	1	1	2	7	3	1	1	2	7	
14.		Gargi Laxmikant Hadge	4	2	2	2	10	4	2	2	2	10	
15.		Harsh Shankar Kodape	4	2	2	2	10	4	2	2	1	9	
16.		Harshad Vinod Warthi	2	2	2	2	8	2	2	1	1	6	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
17.		Jagruti Ajit Rawat	2	2	1	1	6	2	2	1	1	6	
18.		Jagruti Dhanraj Warkar	4	2	2	2	10	4	2	2	2	10	
19.		Juhi Sheshram Chaudhari	4	2	2	2	10	4	2	2	2	10	
20.		Jyoti Jitendra Sharma	4	2	2	2	10	4	2	1	2	9	
21.		Kalpana Deoras Suhagpure	2	2	1	1	6	2	2	2	1	7	
22.		Khushabu H Choudhari	4	2	2	2	10	4	1	2	2	9	
23.		Mansi Diwakar Raut	2	2	1	1	6	2	2	2	2	7	
24.		Mansi Ishwar Mate	4	2	2	1	9	4	2	2	1	9	
25.		Mrunalini S Ramteke	4	1	2	2	9	4	1	2	2	9	
26.		Muskan Rameshwar Yadav	4	1	2	2	9	4	1	2	2	9	
27.		Niket Yuvraj Thakre	4	2	2	2	10	4	2	2	1	9	
28.		Nikhil Ramkrushna Raut	4	0	1	2	7	4	0	0	2	6	
29.		Nikita Shyam Barapatre	4	0	1	2	7	4	0	0	2	6	
30.		Pooja Suresh Itankar	2	2	1	0	5	2	2	1	1	6	
31.		Prajwal Surendra Bhoyar	4	2	2	2	10	4	2	1	2	9	
32.		Riya Raju Kulmethe	2	1	1	1	5	2	2	1	1	6	
33.		Rohit Ashok Parate	2	2	1	1	6	2	1	2	2	7	
34.		Rupesh Chandu Bhokre	2	2	2	2	10	4	2	2	2	10	
35.		Sakshi S Meshram	4	2	2	2	10	4	2	2	2	10	
36.		Sakshi Shankar Jambhule	2	2	1	1	6	2	2	1	1	6	
37.		Sania M Mohd. A Raza	4	2	2	0	8	4	2	2	0	8	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
38.		Shabir Rabiul Shaikh	2	2	1	0	5	2	2	2	0	6	
39.		Shikha Jawaharlal Yadav	4	1	2	2	9	4	1	2	2	9	
40.		Shrawani R Warkhede	2	2	1	1	6	2	2	1	1	6	
41.		Shreya Sanghashree Bagade	2	2	1	1	6	2	2	1	1	6	
42.		Shreya Sunil Dhawale	2	1	1	1	6	2	2	1	1	6	
43.		Shruti Mangesh Pawar	2	2	1	1	6	2	2	1	1	6	
44.		Shruti Pramod Masram	4	1	2	2	9	4	1	2	2	9	
45.		Shubham Chaitra Bisen	4	2	2	0	8	4	2	2	0	8	
46.		Shyamal D Nasre	4	1	2	2	9	4	1	2	2	9	
47.		Siddharth Gajanan Hirkane	2	2	2	2	8	2	2	2	2	8	
48.		Subbu Rajnikant Mishra	2	2	1	1	6					6	
49.		Sumit Sharad Bandebuche	4	2	2	0	8	4	2	2	0	8	
50.		Surabhi Rajesh Pardhi										6	
51.		Sushma Gangadhar Gurnule	2	2	1	1	6	2	2	1	1	6	
52.		Tanushree Raju Bhagat	2	2	1	1	6	2	2	1	1	6	
53.		Tejas Vilas Rewade	2	2	1	0	5	2	2	1	1	6	
54.		Tina Gajanan Rahangdale	2	1	1	1	5	2	2	1	1	6	
55.		Twinkal Ganesh Lokhande	2	2	2	1	7	2	2	2	1	7	
56.		Urmila Vijay Bondre	2	2	2	1	7	2	2	2	1	7	
57.		Vaibhavi Amar Shende	4	0	0	2	6	4	0	1	2	7	
58.		Vaishali Sanjay Patle	4	1	2	2	9	4	1	2	2	9	

Sr. No.	Roll No.	Name of Students	PAPER-I					Paper-II					Remarks if any
			C1	C2	C3	C4	Total	C1	C2	C3	C4	Total	
			4	2	2	2	10	4	2	2	2	10	
59.		Vaishnavi Janardan Bedade	4	2	2	2	10	4	2	1	2	9	
60.		Vaishnavi Rajesh Lakhe	2	2	1	1	6	2	2	1	1	6	
61.		Vaishnavi Ruprao Nandpure	2	1	1	1	5	2	2	1	1	6	
62.		Vaishnavi Vijay Gadge	4	2	2	2	10	4	2	2	2	10	
63.		Varsha Ramprasanna Tiwari	4	2	2	2	10	4	1	2	2	9	
64.		Vedant Vilas Baxy	4	2	0	2	8	4	0	2	2	8	
65.		Yashashree Pramod Charde	4	2	2	2	10	4	2	2	2	10	
66.		Yukti Suresh Choudhary	4	2	1	2	9	4	1	2	2	9	
67.		Devashish Bisen	4	2	2	0	8	4	2	2	0	8	
68.		Aditi tiple.	2	2	2	1	7	2	2	2	01	7	

PAPER-I: C1= Attendance, C2= Test-1, C3=Test-2, C4=Assignment/Excursion/Visit/Seminar, etc.
PAPER-II: C1= Attendance, C2= Test-3, C3=Test-4, C4=Assignment/Excursion/Visit/Seminar, etc.

Name & Signature of Teacher In-Charge

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Prof. Pitambar Humane
IQAC Coordinator

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P Deo Memorial
Science College, Nagpur

Dharampeth M. P. Deo Memorial Science College

Date:3-4-2024

All the Heads of the Departments are informed that college is conducting semester end examination for all even semester from 10th of April, so are instructed to set the papers for all even semester as per the university paper pattern and get it ready by 6th of April 2024. Give one hard copy of paper to the examination committee. Attached here is the examination timetable.

Dr. Nitin Gaikwad
IQAC Co-ordinator

Dr. Akhilesh Peshwe
Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

Dongari

1. Lt. Dr. P. W. Ambulkar
2. Prof. P. T. Humane
3. Dr. S. A. Narale 22/4/2024
4. K. M. Paturkar
5.
6. Dr. V. P. Meshram 22/4/2024
7. Dr. N. P. Gaikwad 24/04/2024
8. Mrs. M. M. Deshpande 23/04/24
9. K. M. Paturkar Micro

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

B.Sc. SECOND SEMESTER (2023-24)

END SEM. EXAMINATION TIME TABLE

TIME: 1.30 P.M. TO 4.30 P.M

DAY	DATE	SUBJECT	PAPER
FRIDAY	12-4-2024	Electronics /STATS	II / I
TUESDAY	16-4-2024	Computer science/Microbiology	I
THURSDAY	18-4-2024	Computer science/Microbiology	II
SATURDAY	20-4-2024	English	
MONDAY	22-4-2024	Electronics /STATS	I / II
TUESDAY	23-4-2024	Second Language	
THURSDAY	25-4-2024	Botany/Mathematics	I
FRIDAY	26-4-2024	Botany/Mathematics	II
SATURDAY	27-4-2024	Chemistry	I
MONDAY	29-4-2024	Chemistry	II
TUESDAY	30-4-2024	Zoology/ Physics	I
FRIDAY	3-5-2024	Zoology/ Physics	II

Dr. Nitin Gaikwad
IQAC Co-ordinator

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

B.Sc. FOURTH SEMESTER (2023-24)

END SEM. EXAMINATION TIME TABLE

TIME: 1.30 P.M. TO 4.30 P.M

DAY	DATE	SUBJECT	PAPER
WEDNESDAY	10-4-2024	Zoology/ Physics	I
FRIDAY	12-4-2024	Zoology/ Physics	II
MONDAY	15-4-2024	Computer Science/ Chemistry	I
MONDAY	22-4-2024	Computer Science/ Chemistry	II
WEDNESDAY	24-4-2024	Botany/Mathematics	I
SATURDAY	27-4-2024	Botany/Mathematics	II
MONDAY	29-4-2024	Electronics /Statistics/ Microbiology	I
THURSDAY	2-5-2024	Electronics /Statistics/ Microbiology	II

Dr. Nitin Gaikwad
IQAC Co-ordinator

Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

B.Sc. SIXTH SEMESTER (2023-24)

END SEM. EXAMINATION TIME TABLE

TIME: 1.30 P.M. TO 4.30 P.M

DAY	DATE	SUBJECT	PAPER
SATURDAY	13-4-2024	Zoology/ Physics	I
TUESDAY	16-4-2024	Zoology/ Physics	II
SATURDAY	20-4-2024	Computer science/ Chemistry	I
TUESDAY	23-4-2024	Computer science/ Chemistry	II
THURSDAY	25-4-2024	Electronics /Statistics/ Microbiology	I
FRIDAY	26-4-2024	Electronics /Statistics/ Microbiology	II
TUESDAY	30-4-2024	Botany/Mathematics	I
FRIDAY	3-5-2024	Botany/Mathematics	II

Dr. Nitin Gaikwad
IQAC Co-ordinator

Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M.P DEO MEMORIAL SCIENCE COLLEGE,NAGPUR

DEPARTMENT OF HOME SCIENCE

SESSION: 2023-2024

PRELIMS TIME TABLE

SUMMER 2024

Date: 03-04-2024

All the students of BSc. HSc Sem II are hereby informed that, college will be conducting the Prelims Test Examination as per the schedule given below:

Attendance is compulsory and the test examination data will be considered for internal assessment marks.

Sem II			
Sr.No	**Date**	**Time**	**Subject**
1	16-04-2024	12:30 pm – 03:30 pm	SOCIAL SURVEY & COMMUNITY DEVELOPMENT-II
2	23-04-2024	12:30 pm – 03:30 pm	FUNDAMENTALS OF FOOD SCIENCE & NUTRITION- II
3	25-04-2024	12:30 pm – 03:30 pm	ECOLOGY & ENVIRONMENT-II
4	26-04-2024	12:30 pm – 03:30 pm	INTERIOR DECORATION & DESIGNS-II
5	27-04-2024	12:30 pm – 03:30 pm	DEVELOPMENT IN EARLY YEARS
6	30-04-2024	12:30 pm – 03:30 pm	SEWING TECHNIQUES-II
7	03-05-2024	12:30 pm – 03:30 pm	BASIC CHEMISTRY-II
8	05-05-2024	12:30 pm – 03:30 pm	ENGLISH & COMMUNICATION SKILLS-II
9	06-05-2024	12:30 pm – 03:30 pm	APPLIED PHYSICS &BASIC COMPUTER-II

Prof.Mrs.Varsha Rangari
Convener Exam Committee

Dr. Nitin Gaikwad
IQAC Coordinator

Dr.Akhilesh Peshwe
Principal

Mrs.Manju Deshpande
HOD
Head, Department of Home Science
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M.P DEO MEMORIAL SCIENCE COLLEGE,NAGPUR

DEPARTMENT OF HOME SCIENCE

SESSION: 2023-2024

PRELIMS TIME TABLE

SUMMER 2024

Date: 03-04-2024

All the students of BSc. HSc Sem IV are hereby informed that, college will be conducting the Prelims Test Examination as per the schedule given below:

Attendance is compulsory and the test examination data will be considered for internal assessment marks.

Sem IV			
Sr.No	**Date**	**Time**	**Subject**
1	22-04-2024	12:30 pm – 03:30 pm	NUTRITION FOR LIFE SPAN
2	24-04-2024	12:30 pm – 03:30 pm	DEVELOPMENT IN ADULTHOOD
3	25-04-2024	12:30 pm – 03:30 pm	APPLIED PHYSIOLOGY -II
4	26-04-2024	12:30 pm – 03:30 pm	SURFACE ORNAMENTATION TECHNIQUES
5	27-04-2024	12:30 pm – 03:30 pm	APPLIED PHYSICS & COMPUTER APPLICATION -II
6	30-04-2024	12:30 pm – 03:30 pm	APPLIED CHEMISTRY -II
7	02-05-2024	12:30 pm – 03:30 pm	HOUSING & HOME FURNISHING
8	04-05-2024	12:30 pm – 03:30 pm	MEDIA IN EXTENSION

Prof.Mrs.Varsha Rangari
Convener Exam Committee

Dr. Nitin Gaikwad
IQAC Coordinator

Dr.Akhilesh Peshwe
Principal

Mrs.Manju Deshpande
HOD

Head, Department of Home Science
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M.P DEO MEMORIAL SCIENCE COLLEGE,NAGPUR

DEPARTMENT OF HOME SCIENCE

SESSION: 2023-2024

PRELIMS TIME TABLE

SUMMER 2024

Date: 03-04-2024

All the students of BSc. HSc Sem VI are hereby informed that, college will be conducting the Prelims Test Examination as per the schedule given below:

Attendance is compulsory and the test examination data will be considered for internal assessment marks.

Sem VI			
Sr.No	**Date**	**Time**	**Subject**
1	16-04-2024	12:30 pm – 03:30 pm	DIET THERAPY
2	23-04-2024	12:30 pm – 03:30 pm	CARE & WELL BEING IN HUMAN DEVELOPMENT
3	25-04-2024	12:30 pm – 03:30 pm	FASHION DESIGNING
4	26-04-2024	12:30 pm – 03:30 pm	NUTRITIONAL BIOCHEMISTRY
5	27-04-2024	12:30 pm – 03:30 pm	RESOURCE MANAGEMENT-II
6	30-04-2024	12:30 pm – 03:30 pm	PUBLIC HEALTH
7	03-05-2024	12:30 pm – 03:30 pm	COMMUNITY DEVELOPMENT &MANAGEMENT

Prof.Mrs.Varsha Rangari
Convener Exam Committee

Dr. Nitin Gaikwad
IQAC Coordinator

Dr.Akhilesh Peshwe
Principal

Mrs.Manju Deshpande
HOD

Head, Department of Home Science
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF CHEMISTRY

B.Sc I Sem-II Summer 2024

Chemistry I Test Paper

Time: Three Hours

Max. Marks: 50

N. B.: (1) All **FIVE** questions are compulsory and carry equal marks.
(2) Draw diagrams wherever necessary.

Q1	**(A)**	What is hybridization ? Explain the structure of ethane on the basis of hybridization.	**5**
	(B)	Explain Homolytic and Heterolytic bond fission with suitable example.	**5**
		OR	
	(C)	Classify the following as electrophiles and nucleophiles : (i) $FeCl_3$ (ii) H_2O (iii) CH_3NH_2 (iv) OH^- and (v) BF_3	**2.5**
	(D)	Write a short note on Hydrogen bonding.	**2.5**
	(E)	Explain Elimination reaction with suitable example	**2.5**
	(F)	Write a note on Inductive effect	**2.5**
Q2	**(A)**	What is Optical Activity ? Discuss optical isomerism of Tartaric acid.	**5**
	(B)	What is conformation ? Discuss the conformations of ethane.	**5**
		OR	
	(C)	Write a note on 'Asymmetric synthesis.	**2.5**
	(D)	Write a note on E-Z system of nomenclature.	**2.5**
	(E)	What is Resolution ? Explain biological method of resolution	**2.5**
	(F)	Discuss D and L nomenclature with suitable example.	**2.5**

Q3 **(A)** What is Peroxide effect ? Explain free radical mechanism of addition of HBr to propene **5**

(B) Discuss Baeyer's strain theory. Give its limitations **5**

OR

(C) How will you prepare ethylene from : (i) Ethyl alcohol and (ii) Ethyl bromide ? **2.5**

(D) Discuss Wurtz's Reaction **2.5**

(E) Explain the mechanism of chlorination of methane **2.5**

(F) State and explain Markownikoff's rule with example. **2.5**

Q4 **(A)** What is aromatic electrophilic substitution reaction ? Discuss mechanism of nitration of benzene with energy profile diagram

(B) What are alkadienes ? How they are classified ? Discuss 1, 2– and 1, 4– addition reaction of1, 3– Butadiene with example ?

OR

(C) Discuss Diel's-Alder reaction

(D) What is Huckel's rule ? Discuss aromaticity of cyclopentadienyl anion.

(E) Write a note on Octane number

(F) Discuss the acidic nature of acetylene.

Q5 Attempt any ten of the following

i) Define carbonium ion.
ii) Draw orbital structure of Ethylene molecule.
iii) Give one example of addition reaction.
iv) Draw Newman projection and Sawhorse formulae of ethane.
v) What is 'Asymmetric synthesis' ?
vi) What is meant by stereogenic centre ?
vii) Give any one example of Epoxidation.
viii) What is the action of O_3 on propylene ?
ix) Draw structure and give IVPAC name of neopentane.
x) Give the polymerisation reaction of acetylene.
xi) Draw the Kekyle's structure of benzene.
xii) What is calorific value of a fuel. **1×10**

Bachelor of Science (B.Sc.) Semester—II Examination

Chemistry (Physical Chemistry)

Compulsory Paper—2

Time : Three Hours **Maximum Marks :** 50

N.B. :— (1) All FIVE questions are compulsory and carry equal marks.

(2) Write chemical equations and draw diagrams wherever necessary.

1. (A) Explain Chemical Potential and derive Gibb's- Duhem equation 5

(B) i) Derive an expression for work done in Carnot cycle.

ii) 5 moles of an ideal gas were expanded isothermally by reducing the pressure from 10 atm to 2 atm, calculate entropy change for the process. 5

OR

(C) Write four statements of second law of thermodynamics. 2½

(D) Derive the expression: $\Delta A = - W_{max}$ 2½

(E) Derive Gibb's- Helmholtz equation. 2½

(F) Explain law of mass action. The value of K_p at 373K and 413 K are 1.51 and 0.52 respectively. Calculate enthalpy of reaction. 2½

2. (A) Describe sulphur system with the help of phase diagram. 5

(B) Define critical solution temperature and discuss phenol-water system. 5

OR

(C) Draw a phase diagram of water system. Explain metastable state. 2½

(D) State and explain Raoult's law and Henry's law. 2½

(E) Write phase rule and explain the terms involved in it. 2½

(F) State Nernst equation. Define zeotropic mixtures. Concentrations of solute in water and ether were found to be 6 g/dm^3 and 0.72 g/dm^3 respectively. Calculate degree of dissociation of solute it its distribution coefficient is 0.16 in vapour of ether. 2½

3. (A) What is first order of reaction? Derive the equation of rate constant for first order reaction. 5

(B) What are the postulates of transition state theory? Derive expression for rate constant based on equilibrium constant. 5

OR

(C) Discuss collision theory of bimolecular reactions. 2½

(D) Explain the terms: Activated complex and activation energy. 2½

(E) For the first reaction, the rate constant is $0.45\ s^{-1}$. What is the half-life and mean life of the reaction. Define pseudo-order reaction. 2½

(F) Discuss various factors affecting rate of reaction. 2½

4. (A) Define mass defect and binding energy. Calculate mass defect, binding energy and binding energy per nucleon for $_{27}Co^{59}$ having isotopic mass if 58.95 amu. Given that mass of hydrogen atom is 1.0078 amu and mass of neutron is 1.0086 amu. 5

(B) Discuss segments of environment in brief. 5

OR

(C) Define nuclear fission and nuclear fusion. Give two advantages of liquid drop model. 2½

(D) Write a short note on nuclear shell model. 2½

(E) Discuss the different methods used to control gaseous pollutants. ...2½

(F) Write a note on acid rain. ...2½

5. Attempt any **TEN** questions of the following:

(i) What is eutectic point?

(ii) Write any two conditions for a solution to be ideal.

(iii) Write reduced phase rule equation.

(iv) Write two limitations of first law of thermodynamics.

(v) State law of chemical equilibrium.

(vi) Define standard free energy.

(vii) Define order and molecularity of reaction.

(viii) Define smoke and smog.

(ix) Write second order rate expression when initial concentrations are same.

(x) Give any two limitations of liquid drop model.

(xi) Write the Arrhenius equation and give the terms involved in it.

(xii) Give any two medicinal applications of radioisotopes. ....1×10=10

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-7,8,9,10

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any	Marks obtained	
				Paper-I	Paper-II			I	II
1.	ABHIJIT SHYAMKISHOR RAUT	9607185579	abhijitraut2737@gmail.com	A. Raut				00	
2.	ABHISHEK AMOL THAKRE								
3.	ANISH HARENDRA DUBEY								
4.	ASHWINI PRAKASH NAKHATE								
5.	AYUSH HEDAU	7757932849	ayushhedau012@gmail.com	[illegible]				00	
6.	CHIRAG BHOJRAJ MANMODE								
7.	DEEPAK AKSHAYKUMAR SONI	7410145724	dipuk2004soni@gmail.com	[illegible]	[illegible]			00	03
8.	DIVYANSH SINGH	7720035510	neer9465@gmail.com	[illegible]				03	
9.	GANESH ISHWAR WAGHMARE								
10.	KHUSBU JAYKISHOR YADAV	9511702977	yjaykishor013@gmail.com	Yadav	[illegible]			02	01

								P_1	P_2
11.	NAMRATA RAJESH HUNDIWALE								
12.	PALAK JITENDRA SINGH	7249789138	Singh Palak 7249@gmail.com	Singh	Singh			02	2½
13.	PIYUSH MAROTI LAKSHANE								
14.	PRAJWAL PRAKASH UDAN								
15.	PRATIK SURENDRA THOOL	7972745862	pratikthool23@gmail	[illegible]	[illegible]			8½	10
16.	RAHUL RAJU BAWANE								
17.	RUDRAKSH KISHOR KHURGE								
18.	RUSHIKESH DEVIDAS DEHARE								
19.	SAGAR HEMRAJ BOHANE								
20.	SEJAL VILAS DHENGALE								
21.	TEJAS BABARAO RAJURKAR								
22.	VASHISTA PAL								
23.	VEDANT GAJANAN PARKHI								
24.	VIKAS JAGDAMBA YADAV								
25.									

26.							
27.							
28.							
29.							
30.							

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Dr. Nitin Gaikwad

IQAC Coordinator

Dr. Akhilesh Peshwe

Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-11,12

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any	Marks obtained	
				Paper-I	Paper-II			P_1	P_2
1.	Akansha Santosh Tomar	8237507716	akansha tomar 2020@gmail.com	A Tomar	A Tomar			00	02
2.	Anjali Narendra Timma								
3.	Anjali Rajenraprasad Tiwari	7840023451	at422819@gmail.com	Anjali	Anjali			1/2	1/2
4.	Arish Shabbir Sheikh								
5.	Arti Ganesh Katre	9359584324	laxmikatre2000@gmail.com	Arti	Arti			1/2	04
6.	Ayush Suresh Dhurve	9727697039	ayushdhurve03@gmail.com		Ayush				00
7.	Bhumika Dewadas Kurre								
8.	Ekta Dipak Chaudhari	9022804173	chaudhariekta07@gmail.com	Chaudhari	Chaudhari			00	03
9.	Jamuna Soma Pallo	9405367062	Jamunapallo@gmail.com	Pallo	Pallo			1/2	00
10.	Kallyani Chinduji Mojankar								

								P_1	P_2
11.	Kalyani Balram Katre								
12.	Khushboo Rajendra Rahangdale	9322376852	khusbuchangdale66@gmail.com	Khshlee	Khshlee			02	8 1/2
13.	Khushi Surajbhan Tijare	9209295043	khushitijare2020@gmail.com	Khijare	Khijare			00	3 1/2
14.	Lukeshwari Maroti Shendre	7588321257	marotishendre725@gmail.com	Lukeshwari	Lukeshwari			00	2 1/2
15.	Mayuri Maroti Tumdam	9373797051	mayuritumdam21@gmail.com	Mtumdam	Mtumdam.			00	03
16.	Minal Gajanan Verulkar	9921602434	minalverulkar28@gmail.com	Mverulkar	Mverulkar			00	7 1/2
17.	Nisha Dhansingh Bavankar								
18.	Piyush Premraj Dewase								
19.	Purva Ranjitsingh Rajput								
20.	Riya Yogesh Agashe	9175017976	riyaagashe8@gmail.com	Riyaagashe	Riyaagashe			01	4 1/2
21.	Rohan Surjitkumar Tiwari	7841815909	rt01558615@gmail.com	Rohan	Rohan			5 1/2	4 1/2
22.	Sanket Vijay Choudhari	7798413895	Sanketchoudhari779@gmail.com	S.V.choudhari				03	
23.	Suhani Onkar Bhagat								
24.	Suhani Ravindra Raut								
25.	Tanuj Ramesh Shendre	7822898251	tanujshendre6110@gmail.com	TR.Shendre	TRShendre.				06
26.	Trusha Sharad More								

								P1	P2
27.	Vaishnavi Mahesh Kursange								
28.	Vaishnavi Rajesh Chavan								
29.	Vedant Omprakash Manmode								
30.	Yutihika Dinesh Shevate								
31	Namrata R. Hundiwala	8080305/1	namratahmedical@gmail.com	namrata	namrata			02	03

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Dr. Nitin Gaikwad

IQAC Coordinator

Dr. Akhilesh Peshwe

Principal

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DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-II
F-13

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any	Marks obtained	
				Paper-I	Paper-II			I	II
1.	Ayushi Prakash Chaudhary	7756017460	ayyohichaudhari@gmail.com	Achaudhary	Achaudhary			05	02
2.	Bhavesh Suresh Urade	9420892856	bhaveshuradeo1@gmail.co						04
3.	Dipanshu Deepak Golait								
4.	Divya Homchand Sahare								
5.	Divyansh Asok Raut	7058194691	divyanshraut921@gmail.com	Raut	Raut			02	00
6.	Harsh Ganesh Kale	9856482390	harsh166638@gmail.com	Kale	Kale			00	04
7.	Karuna Kewalramni Mehndole								
8.	Najia Sheikhnoor Sattar Bairam	9921819426	najiyabairam@gmail.com.	Najiya	Najiya			01	5½
9.	Pallavi Yogiraj Khawashi	8767544975	Pallavikhawashi@gmail.com	Pallavi				00	

10.	Pooja Manik Mashakhetri	8669174298	poojamashakhetri@gmail.com					00	08
11.	Prachi Ravindra Gudadhe	9372913742	prachigudadhe21@gmail.com					02	2 1/2
12.	Pragya Alok Rai								
13.	Rasika Mahipal Bandhate								
14.	Sakshi Rajesh Singh	9356410815	buggusingh2004@gmail.com					06	07
15.	Shivani Vijay Wakulkar								
16.	Shriya Pradip Gahukar	9356946229	shriyagahukar157@gmail.com						01
17.	Shruti Vijay Singh	8390451747	sakshibcp@gmail.com				—	00	00
18.	Sonal Ambadas Pardhi	9579875047	Jineshwaripardhi@gmail					1 1/2	04
19.	Sujal Digambar Motghare	9834010997	motgharesujal842@gmail				—		00
20.	Vipula Raju Nadekar	9881066887	nadekarvipula@					06	6 1/2
21.									
22.									
23.									
24.									
25.									

26.							
27.							
28.							
29.							
30.							

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DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-II
F-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any	Marks obtained	
				Paper-I	Paper-II			P1	P2
1.	Aishwarya Satish Thakre	7722092402	aishwaryathakre6436gmail.com	Athakre	Athakre			01	05
2.	Aniket Vijay Valukar								
3.	Anushka Ashok Bhimgade								
4.	Ashwin Shivprasad Kashyap								
5.	Atharva Aniruddha Astikar								
6.	Dipty Anil Zoting								
7.	Divya Dumdeo Mankar								
8.	Gaurav Dharmraj Gharjale								
9.	Isha Devidas Rewatkar	7498719275	isharewatkar@2005gmail.com	Erewatkar				05	
10.	Jayant Ravindra Rohankar								

								P1	P2
11.	Jayashri Jaykishor Pandit								
12.	Jyoti Jayprakash Singh								
13.	Kanak Harendra Vijaywar	9765280017	khvijaywar@gmail.com	KhVij	KhVij			03	11
14.	Kashish Kanthiram Chatur	8208770024	kashishchatur@gmail.com	Kchatur	Kchatur			1/2	6 1/2
15.	Manalee Manohar Sirsat	8975246115	manaleesirsat@gmail.com	MM				1/2	
16.	Mayur Sonu Thakur								
17.	Mohd. Azhar Sheikh								
18.	Nirali Vilas Budhe	9209020324	nirali budhe@gmail.com	Nirali	Nirali			02	07
19.	Nisha Dhansingh Bavankar								
20.	Nisha Sohanlal Patle								
21.	Nupur Umesh Selokar								
22.	Pallavi Surajlal Bijewar								
23.	Payal Pramod Sontakke	8208615204	sontakkepayal15@gmail.com	Payal	Payal			04	07
24.	Prajwal Devendra Hatwar	8459481067	devendranatwar5@gmail.com	Hatwar	Hatwar			20	25 1/2
25.	Pranali Yadorao Rahangdale	9834535911	Pranalirahangdale83@gmail.com.	Pranali				00	
26.	Priyanka Budharam Kamble								

									P_1	P_2
27.	Priyanka Singh									
28.	Rashmi Anilingole	9975197565	rashmiingale23@gmail.com	Rsingole					6½	
29.	Rohit Arun Lanjewar	9067218946	rohitlanjewar139@gmail.com	RLanjewar	RLanjewar				00	00
30.	Ruchika Shailesh Undersayare									
31.	Saket Sanjiv Bansod									
32	Sakshi Dnyaneshwar Pardhi	9370213199	Sakshipardhi@gmail.com	Spardhi					6½	
33.	Sapana Prabhashankar Bhagat	7219069387	bhagatsapna676@gmail.com							01
34.	Shrushti Khushalji Naik									
35.	Shruti Vijay Shendre									
36.	Siddhi Anand Kitkaru	7666618195	Siddhikitkaru@gmail.com	Siddhi	Siddhi				5½	05
37.	Sparshika Rajendra Hadke									
38.	Trisha Dhaniram Jamaiwar									
39.	Umesh D Raut									
40.	Yogini Sanjayrao Dhole									

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Attendance Sheet (DVV)
B. Sc. Sem.-II
F-11,12

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Akansha S. Tomar	12	13	25	A S Tomar
2.	Anjali N. Timma				
3.	Anjali R. Tiwari	11	9	20	Anjali
4.	Arish S.Sheikh				
5.	Arti G.Katre	12	15	27	Arti
6.	Ayush S.Dhurve	14	10	24	Ayush
7.	Bhumika D. Kurre				
8.	Ekta D.Chaudhari	10	13	23	Echaudhari
9.	Jamuna S. Pallo	11	12	23	Pallo
10.	Kallyani C. Mojankar				
11.	Kalyani B. Katre				
12.	Khushboo R. Rahangdale	12	18	30	Khushbu
13.	Khushi S. Tijare	10	13	23	Tijare
14.	Lukeshwari M. Shendre	10	12	22	Lukeshwari
15.	Mayuri M. Tumdam	10	13	23	Mtumdam.
16.	Minal G. Verulkar	10	17	27	Mverulkar
17.	nisha D. Bavankar				
18.	Piyush P. Dewase				
19	Purva R. Rajput				

10.	Pooja M. Mashakhetri	10	18	28	
11.	Prachi R. Gudadhe	12	12	24	
12.	Pragya A. Rai				
13.	Rasika M. Bandhate	16	17	33	
14.	Sakshi R. Singh	16	17	33	
15.	Shivani V.Wakulkar				
16.	Shriya P. Gahukar	10	11	21	
17.	Shruti V. Singh	10	10	20	
18.	Sonal A. Pardhi	10	10	20	
19	Sujal D. Motghare	10	10	20	
20	Vipula R.Nadekar	16	16	32	

20	Riya Y. Agashe	11	14	25	YAgashe
21	Rohan S. Tiwari	15	14	29	Rohan
22	Sanket V. Choudhari	13	10	23	S.V. choudhari
23	Suhani O. Bhagat				
24	Suhani R. Raut				
25	Tanuj R. Shendre	14	16	30	T R. Shendre
26	Trusha S. More				
27	Vaishnavi M. Kursange				
28	Vaishnavi R.Chavan				
29	Vedant O. Manmode				
30	Yutihika D. Shevate				

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-II
S-7,8,9,10

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Abhijit S. Raut	15	10	25	A. Raut
2.	Abhishek Thakre				
3.	Anish Dubey				

4.	Ashwini Nakhate				
5.	Ayush Hedau	12	12	24	
6.	Chirag Manmode				
7.	Deepak A Soni	12	13	25	
8.	Divyansh Singh	15	17	32	
9.	Khusbu J. Yadav	12	11	23	
10.	Namrata R Hundiwale	10	13	23	
11.	Palak J Singh	11	15	26	
12.	Pratik S Thool	18	17	35	
13.	Rudraksh K. Khurge				
14.	Rushikesh D. Dehare				
15.	Sagar H. Bohane				
16.	Tejas B. Rajurkar				
17.	Vashista Pal				
18.	Vedant Parkhi				
19	Vikas J. Yadav				

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-13

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Ayushi P. Chaudhary	15	12	27	
2.	Bhavesh S. Urade	10	14	24	
3.	Dipanshu D Golait				
4.	Divya H Sahare				
5.	Divyansh A. Raut	12	10	22	
6.	Harsh G. Kale	10	14	24	
7.	Karuna K.Mehndole				
8.	Najia S. Sattar Bairam	11	15	26	
9.	Pallavi Y.Khawashi	10	11	21	

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-II
F-14,15

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Aishwarya Satish Thakre	15	12	27	A Thakre
2.	Ashwin Shivprasad Kashyap				
3.	Atharva Aniruddha Astikar				
4.	Ayushi Prakash Chaudhary				
5.	Dipty Anil Zoting				
6.	Gaurav Dharmraj Gharjale				
7.	Jyoti Jayprakash Singh				
8.	Mayur Sonu Thakur				
9.	Mohd. Azhar Sheikh				
10.	Nirali Vilas Budhe	12	17	29	Nirali
11.	Nisha Sohanlal Patle				
12.	Payal Pramod Sontakke	14	17	31	Payas
13.	Rashmi Anil Ingole	07		07	R. Ingole.
14.	Rohit Arun Lanjewar				
15.	Saket Sanjiv Bansod				
16.	Sapana Prabhashankar Bhagat	11	10	21	Sapna
17.	Shrushti Khushalji Naik				
18.	Siddhi Anand Kitkaru	15	10	25	Siddhi
19	Aishwarya Satish Thakre				

20	Ashwin Shivprasad Kashyap				
21	Atharva Aniruddha Astikar				
22	Ayushi Prakash Chaudhary				
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24	Gaurav Dharmraj Gharjale				
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26	Mayur Sonu Thakur				
27	Mohd. Azhar Sheikh				
28	Nirali Vilas Budhe				
29	Nisha Sohanlal Patle				
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40					

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19	Smruti M. Vaidya	22	22	44	Svaidya
20	Sudhanshu R. Uikey	AA	AA	AA	
21	Swati S. Longadge	13	26	39	Swati
22	Vaibhav A. Malewar	12	13	25	V. A. Malewar
23	Vaishnavi T. Kapse	22	25	47	Vaishnavi
24	Vishakha D. Baswante	AA	AA	AA	

Dharampeth M.P. Deo Memorial Science College.

Bachelor of Science (B.Sc.) Semester—VI
Unit Test Examination 2023-24
INORGANIC CHEMISTRY
Paper—I (CH–601)
(Chemistry)

Time : THREE HOURS Total Mark : 50

Note :— (1) **All** five questions are compulsory and carry equal marks.
(2) Write chemical equations and diagrams wherever necessary

1. A. Define crystal field splitting energy and explain the crystal field splitting of 'd' orbitals in : 5
(i) $[Co(NH_3)_6]^{3+}$ and
(ii) $[Co F_6]^{3-}$ ion.

B. Draw absorption spectra of $[Ti(H_2O)_6]^{3+}$ and $[Cu(H_2O)_6]^{2+}$. Compare them on the basis of : 5
(i) Position of band and
(ii) Symmetry of absorption band.

OR

C. Write a note on spectrochemical series. 2.5

D. What is Jahn Teller distortion ? Give conditions of Jahn Teller distortion with examples 2.5

E. Explain Hole formalism principle considering $d_1 - d_9$ configuration system. 2.5

F. Calculate CFSE in terms of Δt in d_4 and d_6 tetrahedral complexes. 2.5

2. A. (i) What is stepwise and overall stability constants ? How are they correlated ? 5
(ii) How nature of ligand affects stability of metal complexes ?

B. Explain the following using CFT : 5
(i) $[CoF_6]^{3-}$ is paramagnetic, while $[Co(NH_3)_6]^{3+}$ is diamagnetic and
(ii) $[Ni(CN)_4]^{2-}$ is diamagnetic while $[NiCl_4]^{2-}$ is paramagnetic..

OR

C. What is orbital magnetic moment ? Give the conditions required to contribute to the orbital magnetic moment. 2.5

D. Explain why stability constant value decreases in order : 2.5
$[Cu(trien)]^{2+} > [Cu(en)_2]^{2+} > [Cu(NH_3)_4]^{2+}$

E. Describe Gouy's method for determination of magnetic susceptibility. 2.5

F. Discuss the Job's method of determination of composition of Fe(III)–5 SSA complex. 2.5

3 A. Give a brief account of mechanism of Homogeneous Hydrogenation of alkenes. 5

B What are the metal carbonyls ? How are they classified ? 5

OR

C. Give any two methods of preparation of alkyl and aryls of Lithium. 2.5

D Explains the concept of back bonding in metal ethylenic complexes. 2.5

E Discuss the structures of $Ni(CO)_4$ 2.5

F Discuss the structures of $Cr(CO)_6$ 2.5

4. A. What are metalloporphyrins ? Give the structures of porphyrins. 5

B. What is HSAB principle ? By using HSAB principle explain the following 5

1. HgS is insoluble where as $Hg(OH)_2$ is soluble in dil.HCL.
2. Ca and Mg exist in nature in the form of carbonates.

OR

C. Descibes the structure of Haemoglobin. 2.5

D Write a note on Sodium Pump. 2.5

E What is Symbiosis ?Give its application. 2.5

F What is hard and soft acids and bases ? 2.5

5. Attempt any **Ten** of the following : $10 \times 1 = 10$

(i) Define crystal field stabilization energy
(ii) State Laporte selection rule..
(iii) Why is $[Ti(H_2O)_6]^{3+}$ purple coloured ?
(iv) What are inert complexes ?
(v) Define molar magnetic susceptibility
(vi) Why are low spin tetrahedral complexes not observed ?
(vii) What is IUPAC names of following organometallic compounds
a) $K_3[Fe(CN)_5$
b) $Co_2(CO)_8$
(viii) What is Synergistic effect ?
(ix) Write any one preparation of $[Ni(CO)_4]$
(x) What is the role of Na^+ ions?
(xi) What is Calcium Pump ?
(xii) What is Myoglobin ?

Dharampeth M.P. Deo Memorial Science College.

Bachelor of Science (B.Sc.) Semester—VI
Unit Test Examination 2023-24
ORGANIC CHEMISTRY
Paper—II (CH–602)
(Chemistry)

Time : THREE HOURS | Total Mark : 50

Note :— (1) **All** five questions are compulsory and carry equal marks.
(2) Write chemical equations and diagrams wherever necessary

1. A. Discuss principle of NMR spectroscopy. How many signals are expected in Ethyl alcohol and Acetaldehyde ? 5

B. Discuss the different types of Stretching and Bending vibrations . 5

OR

C. What is shielding and deshielding of protons in NMR spectroscopy ? 2.5

D. Write a note on Pure Vibrational spectra of Simple Hormonic Oscillator. 2.5

E. Explain (n+1) rule in spin-spin coupling in NMR spectroscopy. 2.5

F. How IR Spectroscopy useful to distinguish between cis and trans isomer ? 2.5

2. A. How is acetoacetic ester prepared by claisen condensation ? How will you convert ethyl acetoacetate into : 5
(i) Acetic acid (ii) Succinic acid
(iii) Crotonic acid and (iv) 4-methyl uracil.

B. What are Carbohydrates ? Discuss the open chain structure of glucose giving experimental evidences in support of it .Write its draw backs. 5

OR

C. Discuss keto-enol tautomerism with reference to acetoacetic ester . 2.5

D. Descibe Wohl's Degradation method for the conversion of an aldohexose to an aldopentose . 2.5

E. Draw the structures of : 2.5
(i) Maltose And
(ii) Sucrose.

F. Explain the acidity of a-hydrogen in reactive methylene compound 2.5

3 A. What are the Proteins ? How are they classified on the basis of structure ? 5

B What are fats and oils ? How do they differ from one another ? Give an account of edible and industrial oil of vegetable origin. 5

OR

C. What are detergents ? How do they differ from traditional soaps ? 2.5

D. Explain : 2.5
(i) Nucleosides and
(ii) Nucleotides.

E. Explain the following terms : 2.5
(i) Soaps and
(ii) Iodine value

F. Write a note on Electrophoresis methode. 2.5

4. A. Give an account of electronic theory of colour and chemical constitution of dyes. 5

B. Discuss the twelve principles of Green Chemistry. 5

OR

C. What are polyamides ? Give preparation and uses of Nylon-66. 2.5

D Explain Ziegler-Natta polymerisation. 2.5

E Give synthesis and uses of crystal violet 2.5

F Write a note on need of Green Chemistry 2.5

5. Attempt any **Ten** of the following : $10 \times 1 = 10$

(i) What is chemical shift ?
(ii) Define coupling constant 'J'.
(iii) What is fingerprint region in IR Spectroscopy
(iv) What is reactive methylene group ?
(v) What are epimers ?
(vi) What is mutarotation ?
(vii) What is Protein Denaturation ?
(viii) what is Acid Value ?
(ix) What is Soponification Value ?
(x) Give any two uses of Nylon 6.
(xi) Write the structure of phenolphthalein dye.
(xii) Write the starting reactant of Dacron .

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-7,8,9,10

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46	VATAN SANTOSH SONWANE						
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF CHEMISTRY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-11,12

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF CHEMISTRY

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-13

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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Nikhil Ramkrushna Raut

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Name & Signature of Head of the Department

Dr. Nitin Gaikwad

IQAC Coordinator

Dr. Akhilesh Peshwe

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-11,12

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Abhishek Diwakar Deshbratar				
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3.	Ankita Manoj Mishra				
4.	Ashlesha Umesh Sangole	00	00	00	
5.	Asmita Dhanraj Charjan	02	05	07	
6.	Ayush Ajay Kadam	00	07	07	
7.	Harshad Vinod Warthi				
8.	Jagruti Ajit Rawat	00	00	00	
9.	Khushabu Harikumar Chaudhari	04	06	10	
10.	Mrunalini Siddharth Ramteke	02	08	10	
11.	Muskan Rameshwar Yadav	02	07	09	
12.	Nikhil Ramkrushna Raut				
13.	Nikita Shyam Barapatre	04	05	09	
14.	Riya Raju Kulmethe	02	10	12	

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16.	Shabir Rabiul Shaikh				
17.	Shikha Jawaharlal Yadav				
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19	Shruti Mangesh Pawar				
20	Shruti Pramod Masram	03	05	08	
21	Subbu Rajanikant Mishra	02	05	07	
22	Sushma Gangadhar Gurnule	00	02	02	
23	Tanushree Raju Bhagat				
24	Vaishali Sanjay Patle				
25	Varsha Ramprasanna Tiwari	02	06	08	
26	Yashashri Pramod Charde	03	05	08	
27	Yukti Suresh Chaudhary	03	06	09	
28	Devashish Bisen	00	00		

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-13

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9.	Ketaki R Kirpal	06	07	13	Kkirpal
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11.	Pallavi C. Borkar				
12.	Prachal M. Meshram	01	09	10	[illegible]
13.					

14.					
15.	Pratiksha S. Navghare	03	06	09	P.S Navghare
16.	Rushabh M. Chaudhari				
17.	Sagar S. Bawane	12	12	24	SSBawane
18.	Samir P. Ghumde	04	06	10	Ghumde
19	Shital G. Bankar	07	06	13	S.G. Bankar
20	Shreya R. Deshmukh				
21	Smruti M. Vaidya	04	02	06	Vaidya
22	Sudhanshu R. Uikey	00	00	00	Eqvika
23	Swati S. Longadge	00	02	02	Swati
24	Vaibhav A. Malewar	01	05	06	VBanluer
25	Vaishnavi T. Kapse	09	08	17	VKapse
26	Vishakha D. Baswante	02	09	11	Baduttq

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-14,15

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Aditya M. Tiwari	01	02	03	A. M. Tiwari
2.	Aman Dongre	13	05	18	Dongre
3.	Anagha R. Sainis	04	06	10	A. R. Sainis
4.	Anjali A. Mishra				
5.	Chhakuli G. Wadikar				
6.	Darshna S. Madavi				
7.	Dhanshree Y.Newalkar	01	09	10	Dwalk
8.	Gargi L. Hadge				
9.	Harsh S. Kodape				
10.	Jagruti D. Warkar	07	07	14	Jkwti
11.	Juhi S. Chaudhari	16	04	20	Juhi
12.	Jyoti J. Sharma				
13.	Kalpana D. Suhagpure	02	06	08	

14.	Mansi D. Raut				
15.	Mansi I. Mate	08	09	17	Mate
16.	Niket Yuvraj Thakre	06	07	13	N.Thakre
17.	Pooja S. Itankar				
18.	Prajwal S. Bhoyar				
19	Rohit A. Parate				
20	Rupesh C. Bhokre	02	09	11	Bhokre
21	Sakshi S. Meshram	11	09	20	Smshi
22	Sania Mohd. Anees Raza				
23	Shrawani R.Warkhede	01	09	10	Shrw
24	Shreya S.Dhawale				
25	Shubham C. Bisen				
26	Shyamal D. Nasre	07	09	16	Nase
27	Siddharth G. Hirkane				
28	Sumit S. Bandebuche				
29	Surabhi R. Pardhi				
30	Tejas V. Rewade				
31	Tina G. Rahangdale				
32	Twinkal G. Lokhande				
33	Urmila V. Bondre	09	09	18	Ubondre

34	Vaibhavi Shende				
35	Vaishnavi J. Bedade				
36	Vaishnavi R. Lakhe				
37	Vaishnavi R. Nandpure				
38	Vaishnavi V. Gadge				
39	Vedant V. Baxy				

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF CHEMISTRY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

S-7,8,9,10

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	Aditya Mishra				
2.	Aman V Tripathi				
3.	Ananya R Motghare	09	11	20	Ananya
4.	Apurva S Verulkar				
5.	Ashmit V. Juwar				
6.	Atharva V. Ingole				
7.	Ayaz Sheikh				
8.	Bhumika V. Thakre				
9.	Dhammapriti R. Lale	03	13	16	Dhamlale
10.	Dinesh I. Parteti				
11.	Divya K. Hanote				
12.	Gaurav P. Landge				
13.	Jasraj D. Paliwal	03	17	20	Jap.

14.	Kajal P. Nighot				
15.	Kajal T. Prasad	11	12	23	Prasad
16.	Kartik M. Shelotkar				
17.	Kavita S. Mishra				
18.	Khushi N. Suryawanshi				
19	Mansi A. Badole				
20	Mansi S. Fating	00	10	10	
21	Mayur D. Ghodam				
22	Mithilesh Kumar Prasad				
23	Nidhi K. Misar				
24	Prachit R. Kotpalliwar				
25	Pradumna A. Singh				
26	Pratik Gahukar				
27	Prerna S. Patil				
28	Ritik M. Varma				
29	Riya V. Pandit				
30	Rohit S. Wanjari				
31	Ruchika N. Patle				
32	Rushali D. Bhoskar	09	11	20	Rushali
33	Rutik V. Gajbhiye				

34	Sakshi M. Ingle	05	15	20	Ingle
35	Satyam S. Mishra				
36	Sejal R. Lakhanpal				
37	Shashank G. Pandey	04	17	21	
38	Shital R. Kelzarkar				
39	Shreyash B. Chatte				
40	Shruti Niranjan Ramteke				
41	Shubham Singh	03	11	14	
42	Swanandi Narayanrao Dharne				
43	Tejaswini K. Thakare				
44	Tushar Y. Atkari				
45	Vaishu S. Nimje				
46	Vatan S. Sonwane				
47	Wasudeo K. Lakhmapure				
48	Yash R. Borkar				

Dharampeth Education Society's
Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Science (B.Sc.) Semester-II Examination
COMPUTER SCIENCE
(Object Oriented Programming using 'C ++')
Paper-I

Time: Three Hours] **[Maximum Marks: 50**

N.B: (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Describe the characteristics of OOP. 5

(b) What is Inline function? Write a program using inline function to find largest of two numbers. 5

OR

(c) Program to accept the distance between city 1st & 2nd, city 2nd & 3rd. calculate the distance between city 1st & 3rd. Define a class road with private data member km, m, d1, d2, d3 containing member function getdata to accept values of d1, d2 and calculate for calculating distance. 5

(d) What is Class? How is it created? Write an example to define a class 5

EITHER

2. (a) Explain Operator Overloading in detail? 5

(b) Write a C++ program to demonstrate constructor overloading 5

OR

(c) What is parameterized constructor? Write a program to demonstrate parameterized constructor. 5

(d) Write a program to overload unary operator (-). 5

EITHER

3. (a) What is single inheritance? Write a program to demonstrate single inheritance. 5

(b) Write a note on: 5
(i) this pointer
(ii) pointers to objects.

OR

(c) Define Dynamic objects. Explain New and Delete operators with an example. 5

(d) What is multilevel inheritance? Write a program to demonstrate multilevel inheritance. 5

EITHER

4. (a) Define Virtual Function? Write a program to illustrate the use of virtual function. 5

   (b) Explain advantages and disadvantages of Exceptional Handling. 5

OR

   (c) Write a note on try block, throw and a catch block. 5

   (d) Define Polymorphism? Explain Compile time and run time polymorphism with an example. 5

ATTEMPT ALL

5. (a) List and explain different access specifiers. 2½

   (b) Explain concept of Binary operator overloading. 2½

   (c) What is Hierarchical Inheritance? Explain. 2½

   (d) What are rules for handling Exception successfully? 2½

Dharampeth M.P. Deo Memorial Science College ,Nagpur
Department of Computer Science
Academic Session: 2023-24
Paper II -[System Analysis and Design]
Class B.Sc. SEM II

Time : Three Hours] **[Maximum Marks : 50]**

N.B. :— (1) All questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) Explain System Development Life Cycle (SDLC). 5
(b) List various types of feasibilities and explain any two. 5
OR
(c) List different types of data collection methods and explain any two. 5
(d) Explain role and duties of System Analyst. 5

EITHER

2. (a) Write a short note on decision table 5
(b) Explain the principles of code design. 5
OR
(c) Explain the use of data flow diagram and specify the different symbols used in drawing a DFD with suitable example. 5
(d) List main categories of output and explain any four. 5
EITHER
3. (a) Discuss Cold Turkey and Modular method used for conversion of an Information System. 5
(b) Explain different steps involved in implementation of a new system. 5
OR
(c) Write a short note on system evaluation. 5
(d) Explain different levels of Testing. 5
EITHER
4. (a) What is Project Scheduling ? Explain CPM in brief giving suitable example. 5
(b) List the major responsibilities of software project manager. 5
OR
(c) Define software quality. Write short note on ISO 9000 certification. 5
(d) Write short note on Risk Management. 5
5. Attempt all :
(a) Explain System prototyping. 2½
(b) What is data dictionary ? 2½
(c) Explain pilot conversion method. 2½
(d) Write a short note on Gantt chart. 2½

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-2 SCOM

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	AAYUSH SANTOSH RAI	9354575796	Srai119189@gmail.com	Aayush	Aayush	Aayush	
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16. NIL	REVATI PRAKASH BONDE						
17. NIL	RITIKA SATISH AMTE						
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27.	YOGESH SANJAY LOHKARE						

28.							
29.							
30.							

Name & Signature of Teacher In-Charge
Dr. Snehal Narale

Name & Signature of Head of the Department
Dr. Snehal Narale

Dr. Nitin Gaikwad

IQAC Coordinator

Dr. Akhilesh Peshwe

Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-II

F-5 PCOM

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	PRERNA SANTOSHKUMAR SINGH	6299619449	Prernasingh50@gmail.com	Prerna	Prerna	Prerna	
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NIL 3.	PRATIKSHA MANOHAR UIKEY						
4.	PALLAVI PRAKASHRAO MATHANE	8975207921	Pmmathane123@gmail.com	Pallavi.	Pallavi.	Pallavi	
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6.	SHASHIKANT GAJENDRA BANGADKAR	8767789682	shashikantBangadkar34@gmail.com				
7.	DIVYANI VIJAY THOSAR	9561939026	Vaidehi01106@gmail.com	Divyani		Divyani	
8.	VAIDEHI SANJAY MESHRAM	9309927883		Vaidehi		Vaidehi	
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10.	SHEJAL PRALHAD DHALE						

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	13.	SHUBHAM SURENDRA KUSHWAHA	7304939893	shubhamkushwah7364@gmail.com				
	14.	SUHANI RAJESH CHAUBEY	7566237408	suhanichaubey49@gmail.com				
NIL	15.	AMAN NIRANJAN BUNDE						
	16.	MAYURI ANIL KALE						
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	26.	RAVISHANKAR YADAV ZADE						
	27.	PALAK RANJEETNARAYAN PANDE	8421388291	pande2005palak@gmail.com				
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	29.	Ganesh Ishwar Waghmare						
	30.	Ac						

31.							
32.							

Name & Signature of Teacher In-Charge

Dr. Sneha Narale

Name & Signature of Head of the Department

Dr. Sneha Narale

Dr. Nitin Gaikwad

IQAC Coordinator

Dr. Akhilesh Peshwe

Principal

Principal

Dharampeth M.P. Deo Memorial

Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-II

F-4 ECOM

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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1.	ABHISHEK DNYANESHWAR UIKEY	9356913272	abhishekuikey906@gmail.com	Allikey	Allikey	Allikey	
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5.	DARSHAN MADAN BRAMHANE	8087108684	darshbrmhane05@gmail.com	DBrahma	DBrahma	DBrahma	
6.	HIMANSHU PRAKASH RAUT	9075466951	rauthimanshu53@gmail.com	HRaut	HRaut	HRaut	
7.	NAINA YUVRAJ FUKAT	9890430873	nainafukat10@gmail.com	Nfukat	Nfukat	Nfukat	
8.	NILESH GOPAL DHONE	9209568316	ndhone682@gmail.com	N.G. Dhone	N.G. Dhone	N.G. Dhone	
9.	PRANALI RAJESH SHENDE	9022420387	pranalishende0413@gmail.com	Pshende	Pshende	Pshende	

10.	PREETI RAMPRASAD BISEN	8805787004	bisenpriti9@gmail.com	PBisen	PBisen	PBisen	
11.	PRIYAL AJAYRAO SURJUSE	8552914064	Priyalsurjuse17@gmail.com	Surjuse	Surjuse	Surjuse	
12.	PRIYANKA MANOHAR NAGDEVE	8806181018	mangalanagdeve01@gmail.com	Pnagdeve	Pnagdeve	Pnagdeve	
13.	PRIYANSHU BABARAO KHOBE						
NIL 14.	ROHIT VINODKUMAR KALLO						
15.	RUTUJA SANTOSH WANARE	9579405707	rutujawanare909@gmail.com	RWanare	RWanare	RWanare	
16.	SATYAM DEEPAK CHATURVEDI	9699226888	Satyamchaturvedi961@gmail.com	Satyam	Satyam	Satyam	
17.	SEJAL DILIP CHICHMALKAR	8080070250	sejalchichmalkar@gmail.com	sejal	sejal	sejal	
18. NIL	SHRUSHTI MAHENDRA PANDAV						
19.	SOHAM ABHAY KELKAR						
20.	TEJAS SUNIL MESHRAM	9689722354	tejasmeshram1906@gmail.com	Tejas	Tejas	Tejas	
21.	UJWALA SHIVSHANKAR NEWARE						
22.	UMA BASANT TEMBHARE	7057700836	umatembhare88@gmail.com	Umat	Umat	Umat	

23.	VAIBHAV DHOLE	8459299447	VaibhavDhole3026@gmail.	Dhole	Dhole	Dhole	
24.	VIVEK BECHAN YADAV	8329967789	Vivekyadav 962@gmail.com	Vivek	Vivek	Vivek	
25.	YASHASWI PRABHAKAR BIJWE	8999567882	Yashaswibijwe27@gmail.com	Bijwe			
26.							
27.							
28.							

Name & Signature of Teacher In-Charge

Dr. Snehal A. Narale

Dr. Nitin Gaikwad

IQAC Coordinator

Name & Signature of Head of the Department

Dr. Snehal Narale

Dr. Akhilesh Peshwe

Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE
DEPARTMENT OF COMPUTER SCIENCE
SECOND SEMESTER BACHELOR OF SCIENCE (B.SC.)

END SEMESTER RESULT

PAPER I(OBJECT ORIENTED PROGRAMMING C++)

PAPER II (SYSTEM ANALYSIS AND DESIGN

SESSION :2023-2024

Sr. No.	STUDENT NAME	End Semester Exam I Marks / Max 50	End Semester Exam II Marks / Max 50
1	ABHISHEK RAJESH DESAI	AA	AA
2	ACHALKRUMDASGAHUKAR	35	29
3	ADITI RAJMILIND WANJARI	AA	AA
4	DISHA RAJU GEDAM	23	24
5	DIVYANI VIJAY THOSAR	25	20
6	GAURI PRAMOD DHONE	23	20
7	GAURI VITHOBA IVANATE	15	AA
8	ISHA RAMESH KEWATE	23	25
9	MANALI DILIP DHARAPURE	24	27
10	MAYURI ANIL KALE	AA	AA
11	MAYURI SHYAMRAO NAGPURE	19	22
12	MEGHA SAMIR MANNA	15	17
13	MRUNALI SANJAY LAJURKAR	23	24
14	MUSKAN DEVANAND MATHURE	25	20
15	NAINA YUVRAJ FUKAT	23	20
16	NANDINI RAMKRUSHNA KALBHUT	23	24
17	PALAK PAWAN JAWADE	10	19
18	PALAK RANJEETNARAYAN PANDE	AA	AA
19	PALLAVT PRAKASH MATHANE	25	22
20	PRANALI RAJESH SHENDE	20	23
21	PRATIKSHA MANOHARRAO UIKEY	AA	AA
22	PRERNA SANTOSHKUMAR SINGH	23	24
23	PRITEE RAMPRASAD BISEN	25	20

24	PRIYALAJAYRAO SURJUSE	23	20
25	PRIYANKA MANOHAR NAGDEVE	23	24
26	PUJA DHARMENDRA BELDAR	25	20
27	PURVADILIP ZINGRE	AA	AA
28	REVATI PRAKASH BONDE	AA	AA
29	RUCHIKA PRAKASH KURHADKAR	25	30
30	RUTUJA SANTOSH WANARE	30	35
31	SAMRUDDHI PURANLAL PATLE	24	29
32	SEJAL DILIP CHICHMALKAR	22	24
33	SHARWARI RAJESH SAHASTRABUDDHE	23	29
34	SHEJAL PRALHAD DHALE	AA	AA
35	SHREYA BHAGWAN MATE	15	10
36	SHRUSHTIMAHENDRAPANDAV	AA	AA
37	SUHANIMADHUKARDAHAKE	AA	AA
38	SUHANI RAJESH CHAUBEY	30	32
39	TANISHKA SAGAR YADAV	28	29
40	TANUSHREE BHALCHANDRA DANGARE	24	26
41	UJWALA SHIVSHANKAR NEWARE	AA	AA
42	UMA BASANT TEMBHARE	23	24
43	YAIDEHI SANJAY MESHRAM	25	20
44	YASHASWI PRABHAKARRAO BIJWE	23	20
45	AAYUSH SANTOSH RAI	23	24
46	ABHISHEK DNYANESHWAR UIKEY	25	20
47	AKSHAD SANJAY THAKARE	23	20
48	AMAN KUMAR	23	24
49	AMAN NIRANJAN BUNDE	AA	AA
50	AMAN SHAILENDRA GUPTA	23	24
51	ANSH KRISHNA GAJBHIYE	25	20
52	ARPIT ARVIND GAJBHIYE	10	12
53	AYUSH DURGAPRASAD YADAV	15	AA
54	AYUSH MANGESH ASOLKAR	23	24
55	DANIS YASHIN CHHAWARE	25	20
56	DARPAN SURESH PAWAR	23	20
57	DARSHAN MADAN BRAMHANE	23	24
58	GANESH ISHWAR WAGHMARE	AA	AA

59	HARSH VIKAS MASRAM	AA	AA
60	HIMANSHU PRAKASH RAUT	23	24
61	MANDAR DILIP VYAWAHARE	25	20
62	MOHIT JAYLAL BHUJADE	23	20
63	NEERAJ RAMNIVAJ VISHWAKARMA	23	24
64	NILESH GOPAL DHONE	25	20
64	NISHANT ANIL KADU	AA	AA
66	PRIYANSHU BABARAO KHOBE	AA	AA
67	RAVISHANKAR YADAV ZADE	AA	AA
68	ROHIT VINODKUMAR KALLO	AA	AA
69	SARVESH MAHENDRA GETHE	10	09
70	SATYAM DEEPAK CHATURVEDI	15	20
71	SAURABH ARUN BAGDE	18	17
72	SHANTANU MAHESH SONGIRKAR	19	20
73	SHASHIKANT GAJENDRA BANGADKAR	23	24
74	SHUBHAM SURENDRA KUSHWAHA	25	20
75	SOHAM ABHAY KELKAR	23	20
76	TEJAS SUNIL MESHRAM	23	24
77	VAIBHAV ANIL DHOLE	25	20
78	VIVEK BECHAN YADAV	23	20
79	YASHWANT MUKESH GRIME	23	24
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Teacher In charge

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Head Department of Computer Science

Head,
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Dharampeth M.P. Deo Memorial Science College ,Nagpur
Department of Computer Science
Academic Session: 2023-24
Paper I -[Java Programming]
Class B.Sc. SEM IV

Time : Three Hours] **[Maximum Marks : 50]**

N.B. :— (1) All questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) Explain the terms :
(i) Jdk
(ii) Jvm
(iii) Byte code. 5
(b) Explain different operators supported by Java Programming ? 5

OR

(c) Explain the following statement : public static void main (String args[ ]). 5
(d) What is the difference between Applet and Application ? 5

EITHER

2. (a) What do you mean by object ? How objects are initialized ? How class members can be accessed using object ? 5
(b) Explain the concept of overloading and overriding with example. 5

OR

(c) What is inheritance ? Explain the types of inheritance supported by Java. 5
(d) Explain implementing and extending interface in Java. 5

EITHER

3. (a) Define Packages .Explain various API packages in Java. 5
(b) What is applet ? Explain the features of applet. 5

OR

(c) Explain life cycle of thread in detail. 5
(d) What is exception ? How exceptions are handled ? Explain with the help of example. 5

EITHER

4(a) Write a program in Java to draw an oval. 5
(b) What is AWT ? What are the classes supported by AWT . 5

OR

(c) Explain Layout Manager in Java. 5
(d) Write a program to draw a circle and fill it with green color. 5

5. Attempt All :

(a) Write a note on component class. 2½
(b) Differentiate between Class and Interface in Java . 2½
(c) Explain the access specifiers in Java. 2½
(d) Which class is required to create Pop-up menu. 2½

Dharampeth M.P.Deo Memorial Science College, Nagpur
Department Of Computer Science
Academic Session: 2023-2024
Unit Test I
Paper II [Linux Operating System]
Class: B.Sc. SEM IV

Time: Three Hours] **[Maximum Marks: 50**

N.B: a) All Questions are Compulsory and Carry Equal Marks
b) Draw neat and well labelled Diagram Wherever Necessary

EITHER
1. (a) Draw Directory structure of Linux. Explain the role of following directories in Linux OS :
(i) /dev
(ii) /etc
(iii) /usr
(iv) /bin. 5
(b) Explain anatomy of Linux Operating System. 5
OR
(c) State syntax, purpose and example of the following commands:
(i) ls
(ii) stat
(iii) cp
(iv) mkdir
(v) cat. 5
(d) What is Shell? List its Types. Explain any two of them in detail. 5

EITHER
2. (a) Explain vi editor with its modes in detail. 5
(b) Why is back up needed ? Give difference between backup a file and copying a file. Write short note on tar 'utility'. 5
OR
(c) Write short note on formatting a floppy disk in Linux Operating System. 5
(d) State syntax, purpose and example of gzip and gunzip commands. 5

EITHER
3. (a) Under which directory 'passwd' file is kept in Linux Operating System ? What information is placed in 'seven' separate fields in 'passwd' file ? 5
(b) Write steps to create group account. 5
OR
(c) Write short note on 'symbolic file permission'. 5
(d) State syntax, purpose and example of the following command

(i) Chown
(ii) Chgrp 5

EITHER

4. (a) What are communication utilities commands ? Write short note on 'write' and 'talk' commands. 5

(b) Write short note on KDE desktop environment. 5

OR

(c) Describe X-window system in detail. 5

(d) Give syntax, purpose and example of du and df commands. 5

5. Attempt **all** :

(a) Explain home directory in Linux. 2½

(b) Explain Print Spool directory in brief. 2½

(c) Give syntax, purpose and example of kill command. 2½

(d) Discuss strategies, which can be implemented to create more space on disk ? 2½

Dr.Mrs.Snehal Narale

Head, Dept. of Computer Science

Head,
Department of Computer Science
Dharampeth M. P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-4

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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17.							

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-IV
S2

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Name & Signature of Head of the Department

Dr. Nitin Gaikwad

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Dr. Akhilesh Peshwe

Principal

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Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-IV
S5

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8.	KARTIK NARENDRA MIRE						
9.	LUCKY AKHANDPRATAP						

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19.	TRUSHABH DIPANKAR SAHA						
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	NAGOLKAR						
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Name & Signature of Head of the Department

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DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE
DEPARTMENT OF COMPUTER SCIENCE
FOURTH SEMESTER BACHELOR OF SCIENCE (B.SC.)
UNIT TEST I

PAPER II (LINUX OPERATING SYSTEM)
SESSION :2023-2024

Sr. No.	STUDENT NAME	UNIT TEST I Marks / Max 50
1	AAYUSHI VIKRAM SINGH	24
2	ADITI SUBHASH JOGI	AA
3	ARJU SANJEEV RAI	AA
4	DEVASHRI PREMDAS KAKDE	27
5	DIVYANI GOPAL ZADE	23
6	DIVYANI VITTHAL ZAGADE	25
7	ISHA ISHWAR WAGHMARE	AA
8	ISHITA NILESH DESHPANDE	35
9	JAGRUTI GANESH FULKAWAR	26
10	JANHVI AJAY KIRNAPURE	24
11	JANHVI HEMANT LAIBER	35
12	JANVI VASUDEVRAO KHODE	28
13	KALYANI PRAVIN FARTADE	AA
14	MAHIMA SUNIL KHARE	28
15	MONALI NARENDRAJI SHENDE	24
16	MUSKAN CHANDRASHEKHAR VAIDYA	AA
17	NISHA SHRIRAM KOSARKAR	25
18	PRACHI GAURISHANKAR PARDHI	29
19	PRADNYA BANDUJI TIRPUDE	36
20	PRANALI RATNAKARJI DEHANKAR	26
21	PRANALI VIPIN GUPTA	43
22	RUTIKA GORAKH YADAV	40
23	SAKSHI AJAY MISHRA	31

24	SAMIKSHA AMRUT PANCHBUDHE	29
25	SAMIKSHA DALCHAND SHENDRE	22
26	SIMRAN NARENDRA DHIMOLE	28
27	SONIA SANJAY NIWAL	48
28	TANU AJAY SINGH	38
29	TANUJA GHANSHYAM YELURE	AA
30	UTKARSHA SANJAY INGALE	AA
31	VAIDEHI PRAMOD NAGOLKAR	25
32	VAIDHAVI BABURAO GONGAL	17
33	VARSHA LEKHRAM TURKAR	38
34	VEENA ULHAS BORIKAR	35
35	VIDYA EKNATH LOHI	AA
36	ABHISHEK RAVINDRA SINGH	26
37	AMAN SUJIT KARN	AA
38	ANIKET JAYRAM BAWANKAR	AA
39	ATUL DEVISINGH THAKRE	**21**
40	BADAL GENDLAL SOMKUWAR	22
41	GENDLAL BHOJRAJ MACHADE	26
42	HRITIK HARISH HIRANWAR	AA
43	KARTIK NARENDRA MIRE	AA
44	LUCKY KANKRAJ NAVGHARE	30
45	MAHESH DHARAMRAJ PAWDE	25
46	MOHIT MAROTI KHIRDEKAR	28
47	MONU PARDHARI PAL	28
48	NIKHIL SANJAY KALE	AA
49	PRATIK DEVIDAS CHALAKH	21
50	PRATIK HARISH HIRANWAR	AA
51	PRATISH DILIP GOLAIT	AA
52	PRITAM SURENDRA KATWE	22
53	PRIYANSHU PRADEEP SINGH	18
54	SANDEEP KUMAR RAKESH KUMAR	AA
55	TEJAS RAJESH CHELMELWAR	AA

56	TEJAS RAMESH DONGRE	22
57	TRUSHABH DIPANKAR SAHA	AA
58	TUSHAL RUPKUMAR ACHARE	AA
59	UDAY CHANDRASHEKHAR BAGHELE	AA
60	VED SUDHIR CHOUDHARY	AA
61	VEDANT ONKAR UMRETKAR	36
62	VIBHANSHU KRUSHNA TAJNE	31
63	VENEET SINGH	AA

Dr. Snehal A.Narale

Name and Signature of Teacher In-charge

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Science College, Nagpur

Principal
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Science College, Nagpur

Dharampeth M.P.Deo Memorial Science College, Nagpur

DEPARTMENT OF COMPUTER SCIENCE

Session 2023-24

Unit test mark sheet

BSc sem IV (paper II)

Sr no	Name of the Students	Total Marks Obtained out of 50
1.	ADITI SUBHASH JOGI	AA
2.	AMAN SUJIT KARN	AA
3.	ATUL DEVISINGH THAKRE	43
4.	BADAL GENDLAL SOMKUWAR	42
5.	DIVYANI GOPAL ZADE	30
6.	GENDLAL BHOJRAJ MACHADE	32
7.	KALYANI PRAVIN FARTADE	AA
8.	KARTIK NARENDRA MIRE	AA
9.	LUCKY AKHANDPRATAP VISHWAKARMA	AA
10.	MAHESH DHARAMRAJ PAWDE	30
11.	MONU PARDHARI PAL	28
12.	MUSKAN CHANDRASHEKHAR VAIDYA	AA
13.	PRACHI GAURISHANKAR PARDHI	31
14.	PRACHI KRUSHNA GAJBHIYE	AA
15.	PRATIKSHA GHANSHYAM BARVE	AA
16.	SAMIKSHA AMRUT PANCHBUDHE	31
17.	SAMIKSHA DALCHAND SHENDRE	28
18.	TANUJA GHANSHYAM YELURE	AA
19.	TRUSHABH DIPANKAR SAHA	AA
20.	VAIDEHI PRAMOD NAGOLKAR	29
21.	VIBHANSHU KRUSHNA TAJNE	28
22.	PRATIK DEVIDAS CHALAKH	25
23.	LUCKY KANKRAJ NAVGHARE	27
24.	BORIKAR VEENA ULHAS SANGITA	39
25.	DEHANKAR PRANALI RATNAKARJI MADHURI	35

26.	DESHPANDE ISHITA NILESH	32
27.	FULKAWAR JAGRUTI GANESH SHAKUNTALA	30
28.	GOLAIT PRATISH DILIP USHA	AA
29.	GUPTA PRANALI VIPIN ARCHANA	26
30.	INGALE UTKARSHA SANJAY NALINI	AA
31.	KAKDE DEVASHRI PREMDAS WARSHA	23
32.	KALE NIKHIL SANJAY SEETA	AA
33.	KATWE PRITAM SURENDRA MAYA	23
34.	KHIRDEKAR MOHIT MAROTI PADMINI	35
35.	KHODE JANVI VASUDEORAO NILIMA	28
36.	KIRNAPURE JANHVI AJAY VAISHALI	27
37.	LOHI VIDYA EKNATH SUNANDA	AA
38.	MISHRA SAKSHI AJAY MANJU	25
39	NIWAL SONIA SANJAY CHHAYA	35
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41	TURKAR VARSHA LEKHRAM LATA TURKAR	29
42	YADAV RUTIKA GORAKH URMILA	39
43	ZAGADE DIVYANI VITTHAL MANGALA	35
44	KHARE MAHIMA SUNIL SUSHMA	37
45	KOSARKAR NISHA SHRIUM MADHURI	29
46	LAIBER JANHVI HEMANT NANDINI	22
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49	ISHA ISHWAR WAGHMARE	AA
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51	PRIYANSHU PRADEEP SINGH	29
52	SANDEEP RAKESH KUMAR KUMAR	AA
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54	TANU AJAY SINGH	35
55	TEJAS RAJESH CHELMELWAR	AA
56	TEJAS RAMESH DONGRE	25

57	TUSHAL RUPKUMAR ACHARE	AA
58	VAIDHAVI BABURAO GONGAL	28
59	VED SUDHIR CHOUDHARY	AA
60	VEDANT ONKAR UMRETKAR	35
61	ANIKET BAWANKAR	AA

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Dharampeth Education Society's
Dharampeth M. P. Deo Memorial Science College, Nagpur
Bachelor of Science (B.Sc.) Semester-VI Examination
COMPUTER SCIENCE
(Compiler Construction)
Paper-I

Time: Three Hours] **[Maximum Marks: 50**

N.B: (1) ALL questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Explain syntax analysis phase with example. 5

(b) Write short note on Error Handling. 5

OR

(c) Draw phase diagram of compilation process and give purpose of each block. 5

(d) Write short note on symbol table. 5

EITHER

2. (a) Draw and explain hierarchical structure of programming languages. 5

(b) Explain different data elements and data types of programming language 5

OR

(c) List types of arrays. Explain any two. 5

(d) Explain different types of statements used in programming language. 5

EITHER

3. (a) Explain role of Lexical Analyzer. 5

(b) Draw Parse tree for the following expression: – id + id * id. 5

OR

(c) Write a short note on context free grammar. 5

(d) Given Production rules are: - 5
$S \rightarrow aSa$
$S \rightarrow bSb$
$S \rightarrow c$
Derive the string **abbcbba** from the given CFG.

EITHER

4. (a) Write short note on Loop Optimization. 5

(b) Explain simple code generator. 5

OR

(c) Explain DAG representation of basic blocks. 5

(d) What is Top-Down parsing? Explain with example. 5

ATTEMPT ALL

5. (a) Why are translators needed ? 2½

(b) List tokens and give one example of each. 2½

(c) What is Regular Expression ? 2½

(d) What are the capabilities of a symbol table ? 2½

Dharampeth M.P.Deo Memorial Science College, Nagpur
Department Of Computer Science
Academic Session: 2023-2024
Unit Test I
Paper II [SQL and PL/SQL]
Class: B.Sc. SEM VI

Time: Three Hours] **[Maximum Marks: 50**

N.B: a) All Questions are Compulsory and Carry Equal Marks
b) Draw neat and well labelled Diagram Wherever Necessary

EITHER
1. (A) List any ten CODD's rule. 5
(B) Explain the following commands with syntax and example
(i) Creation of table
(ii) Adding one more column in existing table.
(iii) Update 5

OR
(C) Explain the Grant and Revoke command with suitable example. 5
(D) What is constraint ? Explain CHECK constraint and Primary Key constraint with suitable an example. 5

EITHER
2. (A) What is view ? Give its advantages and write a syntax to create a view. 5
(B) Write a program in PL/SQL to find largest among three given number. 5

OR
(C) Explain different blocks available in PL/SQL. 5
(D) Create view on the employee table that gives access to information about employees in the department number 55.
employee (empno, salary, deptno). 5

EITHER
3. (A) What is EXCEPTION ? Explain the user defined exception. 5
(B) Write a procedure in PL/SQL to increase the salary of all employee by 7.5%.
employee (name, age, sex, basic-salary). 5
OR
(C) Explain the following predefined exception :
(i) DUP_VAL_ON_INDEX
(ii) NO_DATA_FOUND
(iii) ZERO_DIVIDE
(iv) VALUE_ERROR

(v) INVALID_NUMBER. 5

(D) What is Cursor ? What are the different types of cursors ? Explain any one with example. Explain Attributes of Implicit Cursor. 5

EITHER

4. (A) What is trigger ? List its types. Give the syntax for creating a trigger. 5

(B) Write a function in PL/SQL to find the factorial of given number n. 5

OR

(C) Create a trigger that restricts a user from performing a DML on EMP table on "Monday". 5

(D) What is a function ? Give the syntax for creating a function. 5

5. (A) Explain any two date functions with suitable example in brief 2½

(B) Explain While loop with suitable example 2½

(C) Define procedure. Give syntax for Dropping a procedure. 2½

(D) Explain use of before and after triggers giving a suitable example. 2½

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
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Internal Assessment 2023-24
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B. Sc. Sem.-VI
T-5

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Mrs. Ruma Kapse

Dr. Nitin Gaikwad

IQAC Coordinator

Name & Signature of Head of the Department

Dr. Snehal Narale

Dr. Akhilesh Peshwe

Principal

Principal

Dharampeth M.P. Deo Memorial

Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-VI
T-2

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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Dr. Nitin Gaikwad

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Dr Snehal Narale

Dr. Akhilesh Peshwe

Principal

Principal

Dharampeth M.P. Deo Memorial Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-VI
T-4

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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18.	YASH RAVINDRA KHEDEKAR	7020829422	yashkhadekar5@gmail.com				
19.	Sandeep L. Pyade	9067118437	sandeeplande18@g.com				

Name & Signature of Teacher In-Charge

Dr. S.A. Narale, Mrs. Pluma Kapre

Name & Signature of Head of the Department

Dr Snehal Narale

Dr. Nitin Gaikwad

IQAC Coordinator

Dr. Akhilesh Peshwe

Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE
DEPARTMENT OF COMPUTER SCIENCE
SIXTHSEMESTER BACHELOR OF SCIENCE (B.SC.)
UNIT TEST I
PAPER II (SQL AND PL/SQL)
SESSION :2023-2024

Sr. No.	STUDENT NAME	UNIT TEST I Marks / Max 50
1	ADITI ALESHWAR LUTE	28
2	ANJALI VINOD RANGANKAR	19
3	BHAGYARATHI RAMVINAY PANDEY	32
4	BHAGYASHREE SANJAY THAKARE	40
5	DAMINI BALRAM KATRE	38
6	ISHA SANJAY NEMADE	25
7	KHUSHBU GANESH WALMIK	23
8	KHUSHI DINESH WAGHADE	AA
9	MANSI DILIP NANDANWAR	22
10	NUTAN PALASRAM SURJUSE	38
11	PRAJAKTA SANJAYRAO PAWAR	18
12	RENUKA VISHAL LANDE	14
13	RITUL KRISHNA BISEN	30
14	SADHANA MITARAM PARDHI	18
15	SAKSHI VINOD KANADE	17
16	SANCHITA SUNIL PATIL	41
17	SHIVANI GANPAT GHUBADE	AA
18	SHWETA RANGRAO BEDWAL	29
19	SUMAN RAJMOHAN SINGH	AA
20	SWAMINI SATISH RAJANKAR	AA
21	UNNATITAI CHATRAPAL CHOPDE	20
22	URVASHI SUNILRAO UMATHE	20

23	VAISHNAVI DNYASHWAR JADHAV	16
24	VICKY AWADHBIHARI SINGH	31
25	YAMINI ACHAL MISHRA	16
26	ADITYA RAVINDRA SINGH	14
27	ADITYAKUMAR SHYAMALKUMAR SHUKL	28
28	ADITYAKUMAR SURYABANSH SINGH	21
29	AKSHAY PREMDAS KHANDARE	18
30	AMAN DILIP CHAVHAN	12
31	ANKUR SANJEEV KHURPADI	19
32	ANKUSH SAMMA GAWADE	18
33	ANUJ HARIPRASAD MISHRA	AA
34	ATHARAV PANDURANG UMATE	12
35	AVISHKAR ANIL BANSOD	AA
36	AYUSH RAJENDRA BORIKAR	16
37	DEWANG SACHIN KARIA	AA
38	DURGESH KRISHNA SINGH	16
39	DURGESH TULSIDAS ROKDE	AA
40	HARSHAL NAMDEO AJANKAR	19
41	HITESH GANESH KAWARE	28
42	HRITIK CHANDRAMA MISHRA	22
43	JAY ANILBHAI PATIL	19
44	KETAN SURESH BHOYAR	17
45	KUNAL SANJAY DIGRASE	15
46	NIMISH GIRISH NAWGHARE	18
47	NITIN AJAY KUSHWAHA	41
48	OMKUMAR DEVLAL DEVANGAN	30
49	PRATHAM ANKUSH SITKARE	12
50	PRITESH SURENDRA NARTAM	18
51	PURUSHOTTAM RAVI PARASHAR	19
52	RAHUL RAMESH KAWADE	18
53	SAHIL BHOLA SINGH	21

54	SANDIP LOTAN FUNDE	15
55	SARTHAK SANJAY JICHKAR	17
56	SAURAV KOMAL PRASAD UIKEY	16
57	SUMIT VIJAY SABLE	AA
58	TUSHAR RAMESH PARIHAR	AA
59	YASH RAMESHWAR JAISWAL	AA
60	YASH RAVINDRA KHEDEKAR	13

Dr. Snehal A. Narale

Name and Signature of Teacher In-charge

Head,
Department of Computer Science
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE
END SEM. EXAMINATION (2023-24)
B.Sc. SECOND SEMESTER

Subject: Electronics.
Paper -I ((SEMICONDUCTOR DEVICES)

Time : Three Hours] **[Maximum Marks : 50**

N.B. :— (1) All questions are compulsory and carry equal marks.
(2) Draw diagrams wherever necessary.

1. EITHER

(A) Explain the operation of PN junction diode in forward bias and reverse bias condition. Define the following terms of PN junction diode.
(i) Cut-in voltage
(ii) Breakdown voltage
(iii) Static forward resistance
(iv) Dynamic forward resistance. 6+4

OR

(B) What is Zener diode ? Explain Avalanche and Zener effects. Explain construction and working of LED. 1+2+7

2. EITHER

(A) What is Transistor ? Explain construction of NPN transistor. Draw the circuit diagram and explain input and output characteristics of transistor in CE mode. 1+ 4 + 5

OR

(B) Draw circuit configuration of CB, CE and CC mode for NPN transistor. Explain using neat circuit diagram the operation of a transistor as a switch. 6+5

3. EITHER

(A) What is FET ? Give its classification. Explain the construction and working of p-channel JFET. 2+8

OR

(B) What is MOSFET ? Explain the construction and working of E-MOSFET. List the advantages of MOSFET over the JFET. 1+6+3

4. EITHER

(A) What is UJT ? Explain the construction and working of UJT. Draw and explain V-I characteristics of UJT. 1+6+3

OR

(B) Explain the construction and working of SCR. State its applications. Draw and explain V-I characteristics of TRIAC. 6+4

5. Solve any TEN : 1*10

(a) State any two advantages of JFET.
(b) Draw the symbol of N-channel JFET.
(c) Why E-MOSFET is called as "Normally OFF" device ?
(d) What is SCR ?
(e) State any two applications of DIAC.
(f) Define Intrinsic stand-off ratio of UJT.
(g) Define depletion region.
(h) What is zener effect?
(I) List any three trivalent elements.
(j) Draw the symbol of npn transistor.
(k) What is biasing in transistor ?
(l) What is operating point in o/p characteristics of transistor ?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

END SEM. EXAMINATION (2023-24)

B.Sc. SECOND SEMESTER

Subject: Electronics.

Paper -II (Advanced Digital Electronics)

Time : Three Hours] **[Maximum Marks : 50**

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw diagrams wherever necessary.

1. EITHER

(A) Explain the following terms, with respect to Digital IC's :

(i) Speed of Operation. (ii) Fan-In (iii) Fan-out

(iv) Noise Immunity (v) Power Dissipation. 2+2+2+2+2

OR

(B) Explain the working of CMOS NAND gate with the help of suitable circuit diagram. Explain its merits. 10

2. EITHER

(A) Draw the logic diagram of 4-bit ring counter and explain its working. List the point of differences between ring counter and Johnson counter. 6+4

OR

(B) What is down counter ? Draw the logic diagram of 4-bit ripple down counter and explain its working with truth table and timing diagrams. List any two applications of down counter. 1+8+1

3. EITHER

(A) Explain construction and working of 4-bit SISO register. Explain construction and working of 4-bit PIPO register. 5+5

OR

(B) What is shift register ? State different types of shift registers. Draw the block diagram of 4-bit SIPO shift register and explain its working with truth table and timing diagrams. 1+1+8=10

4. EITHER

(A) What is memory ? Give the classification of memory on the basis of speed. Construct 32 × 4 size memory block using 16 × 4 memory modules. 1+4+5=10

OR

(B) Classify the memory on the basis of type of transistors used as memory cell. Explain the following types of memory :

(i) RAM

(ii) ROM

(iii) EPROM 2+2+2+2+2

(iv) EEPROM 1*10

5. Solve any TEN :

a. Write any two features of CMOS logic.

b. What is TTL ?

c. Define "Noise Immunity".

d. How many address lines does the 16×4 memory have ?

e. How many IC chips will 8K×4 memory have for the construction of 64K×8 memory ?

f. What is volatile memory ?

g. What is modulus of a counter ?

h. On what factor, does the modulus of a counter depend ?

i. Which condition of flip-flop is used in the construction of counter ?

j. Which property of Flip-Flops is used in the construction of shift register ?

k. What is PISO ?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-4

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IQAC Coordinator

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Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-3

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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4.	SHREYANSH RAVINDRA SATPUTE	—	—	ABSENT	ABSENT	—	
5.	VEDANT DNYANESHWAR MOHANKAR	—	—	ABSENT	ABSENT	—	
6.							
7.							
8.							
9.							

10							

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

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IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

IQAC Coordinator

Dr. Akhilesh Peshwe
Principal
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-II
F 3 &4

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	ABHISHEK DNYANESHWAR UIKEY	4	12	16	Allikey
2.	ACHAL KRUMDAS GAHUKAR	AB	AB	00	
3.	DANIS YASHIN CHHAWARE	AB	AB	00	Danis
4.	DARPAN SURESH PAWAR	2	4	6	D.S Pawar
5.	DARSHAN MADAN BRAMHANE	3	3	6	DBehare
6.	HIMANSHU PRAKASH RAUT	8	21	29	HRaut
7.	NAINA YUVRAJ FUKAT	7	18	25	Nfukat
8.	NILESH GOPAL DHONE	8	28	36	N.G.Dhone
9.	PRANALI RAJESH SHENDE	AB	4	4	Pshude
10.	PREETI RAMPRASAD BISEN	AB	AB	00	PBisen
11.	PRIYAL AJAYRAO SURJUSE	2	9	11	Surjuse
12.	PRIYANKA MANOHAR NAGDEVE	1	4	5	PNagdeve
13.	PRIYANSHU BABARAO KHOBE	AB	AB	00	
14.	ROHIT VINODKUMAR KALLO	AB	AB	00	
15.	RUTUJA SANTOSH WANARE	7	8	15	RWanare
16.	SATYAM DEEPAK CHATURVEDI	0	2	2	Satyam

17.	SEJAL DILIP CHICHMALKAR	4	7	11	Sejal
18.	SHRUSHTI MAHENDRA PANDAV	AB	AB	00	
19.	SOHAM ABHAY KELKAR	AB	AB	00	
20.	TEJAS SUNIL MESHRAM	1	6	7	
21.	UJWALA SHIVSHANKAR NEWARE	AB	6	6	
22.	UMA BASANT TEMBHARE	AB	1	1	
23.	VAIBHAV DHOLE	0	6	6	Dhole
24.	VIVEK BECHAN YADAV	0	AB	0	Vivek
25.	YASHASWI PRABHAKAR BIJWE	6	11	17	
PME					
1.	HIMANSHU LILADHAR ZILE	3	11	14	
2.	OM VIJAY RAUT	2	9	11	
3.	ROHIT MANOHAR PATIL	AB	5	5	
4.	SHREYANSH RAVINDRA SATPUTE	AB	AB	00	
5.	VEDANT DNYANESHWAR MOHANKAR	AB	AB	00	

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

END SEM. EXAMINATION (2023-24)

B.Sc. FOURTH SEMESTER

Subject: Electronics.

Paper -I (Basic Communication Electronics)

Time : Three Hours] **[Maximum Marks : 50**

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw diagrams wherever necessary.

1. EITHER

(A) Draw the block diagram of Electronic communication system and explain each block. Explain the need of modulation in communication system. 5+5

OR

(B) What is noise? State different types of noise. Explain external noise along with its types in brief. Explain internal noise along with its types in brief. Explain Noise figure, Noise factor and Noise temperature in brief.

1+2+2+2+3

2. EITHER

(A) Explain Amplitude Modulation in brief along with waveform. Explain the importance of modulation index in AM. Derive an expression for time domain representation of AM wave and plot frequency spectrum. 3+2+5

OR

(B) Explain Frequency Modulation in brief along with waveform. Explain the frequency spectrum of FM Wave. Compare AM and FM. 5+2+3

3. EITHER

(A) Explain low level modulator and high-level modulator along with block diagram. Give the comparison between low level modulation and high-level modulation. 5+5

OR

(B) Draw the block diagram of superheterodyne AM receiver and explain the function of each block. Give the comparison between AM receiver and FM receiver. 6+4

4. EITHER

(A) Draw and explain the electrical equivalent circuit of transmission line. What is characteristics impedance? Explain its method of calculation. 5+1+4

OR

(B) What are the properties of Electromagnetic Wave Propagation? Explain Ground wave propagation. Give the application and limitation of ground wave propagation. 3+5+2

5. Solve any TEN : 1*10

a) What is TDM?
b) What is PCM?
c) What is crosstalk?
d) What is Modulation Index?
e) Give two merits of FM.
f) What is SSBSC?
g) What is the function of De-emphasis network?
h) What is automatic gain control (AGC) circuit?
i) What is Fidelity?
j) Define reflection coefficient.
k) Define transmission coefficient

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

END SEM. EXAMINATION (2023-24)

B.Sc. FOURTH SEMESTER

Subject: Electronics.

Paper -II (Analogue and Digital Circuits)

Time : Three Hours] **[Maximum Marks : 50**

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw diagrams wherever necessary.

1. EITHER

(A) Explain with circuit diagram the working of single slope type ADC converter. **10**

OR

(B) Draw the circuit diagram of 4 bit binary ladder (R-2R type DAC). Write its principle and working. Obtain the equation for output voltage. **10**

2. EITHER

(A) Differentiate between unregulated and regulated power supply. Explain the Zener diode as a voltage regulator and state its advantages. Explain line and load regulation. **2+5+3**

OR

(B) What are the general features of IC regulator ? Explain in brief (any five). Design and explain the working of a variable power supply using LM 317 PC. **5+5**

3. EITHER

(A) Explain the basic concept of Phase lock loop (PLL). Explain working operation of PLL. **5+5**

OR

(B) Explain Frequency synthesizer using PLL. Explain Clock Synchronising using PLL. **5+5**

4. EITHER

(A) Explain with block diagram working of LUX meter. **10**

OR

(B) Explain with block diagram working principle of Electrocardiogram (ECG). **10**

5. Solve any TEN : **1*10**

a) What are the advantages of a R-2R Ladder DAC?
b) Define analog to digital conversion.
c) Define resolution related to data conversion.
d) Define load regulation and line regulation.
e) Define SMPS.
f) What is the concept of Low Drop out Voltage Regulator (LDO)?
g) Draw the block diagram of IC 565 PLL.
h) What is VCO?
i) What is FSK?
j) What is electronic tachometer?
k) What is EEG?
l) Define transducer efficiency.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-4

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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11.	TUSHAL RUPKUMAR ACHARE	—	—	—	—		
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13.	VED SUDHIR CHOUDHARY	—	—	—	—		
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16.							
17.							

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Dr. Akhilesh Peshwe
Principal
Dharampeth M. P. Deo Memorial Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-IV
S-3

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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3.	YOGITA JAYSING KAREMORE	8381045307	swara.karemore25@gmail.com	Karemore	Karemore		
4.							

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Name & Signature of Head of the Department

Dr. Nitin Gankwad
IQAC Coordinator

IQAC Coordinator
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Dr. Akhilesh Peshwe
Principal

Principal
Dharampeth M. P. Deo Memorial Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

END SEM. EXAMINATION (2023-24)

B.Sc. SIXTH SEMESTER

Subject: Electronics.

Paper -I (Programming in 'C')

Time : Three Hours] **[Maximum Marks : 50**

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw diagrams wherever necessary.

1. EITHER

(A) What is an operator ? Explain any two operator used in 'C' with examples.

(B) What are different constants ? Explain integer constant and real constant with suitable examples. 5+5

OR

(C) What is scanf ( ) function ? Write a program in 'C' to convert given temperature from Fahrenheit to Celsius.

(D) What is Keyword ? State its importance and enlist any five keywords in 'C'. 5+5

2. EITHER

(A) What are decision making and branching statements ?

(B) Explain the following branching statements with example :

(i) if-else. (ii) switch. 5+5

OR

(C) Explain the following looping statement with suitable example :

(i) for (ii) while.

(D)What is the use of continue statement in loops ? Differentiate between while loop and do while loop. 5+5

3. EITHER

(A) What is an array ? Explain declaration and initialization of one-dimensional array. What are the advantages of using array ? 10

OR

(b) What is structure ? How does it differ from array ? How is structure declared in 'C'? Explain. 10

4. EITHER

(A) What is a function ? What is an argument ? Differentiate between formal and actual argument. What are built in functions ? Explain function with argument and return value with example. 1+1+3+2+3

OR

(B) What is pointer variable ? How a pointer variable is initialised ? What is pointer to a pointer ? 5

(C) Differentiate between call by value and call by reference with suitable example. 5

5. Solve any TEN : 1*10

a) What is pointer operator ?
b) What is recursion ?
c) What is library functions ?
d) What is the necessity of arrays ?
e) Is it possible to initialize unions ?
f) What is the similarity between union and enumeration ?
g) What is entry controlled loop ?
h) Give the significance of GO-TO statement.
i) State the syntax for 'switch' in C.
j) What is a period operator ?
k) What do you understand by scale factor of a variable ?
l) What is the use of size of ( ) operator ?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE

END SEM. EXAMINATION (2023-24)

B.Sc. SIXTH SEMESTER

Subject: Electronics.

Paper -II (Microcontroller 8051 and its Application)

Time : Three Hours] **[Maximum Marks : 50**

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw diagrams wherever necessary.

1. EITHER

(A) Explain the difference between Microprocessor and Microcontroller. Draw the internal architecture of 8051. Explain each block. **2+8**

OR

(B) What are SFR register ? Explain IE, DPTR, TMOD, TCON, SBUF, PCON and SCON Registers. Explain flag register of 8051 microcontroller. **1+7+2**

2. EITHER

(A) Explain internal and external memory organisation of 8051 microcontroller. **10**

OR

(B) Explain direct addressing mode, Indirect addressing mode, register addressing mode, Immediate addressing mode, indexed addressing mode with the help of an example. **10**

3. EITHER

(A) Explain the stack operation of 8051 microcontroller. What is need of a subroutine in a program ? Explain nested subroutine. Differentiate between LJMP and SJMP instruction with suitable example. **4+ 1+2+3**

OR

(A) Explain timers of 8051? Explain the functions of TCON and TMOD registers. Explain the various modes of 8051 timers. **3+4+3**

4. EITHER

(A) What is 16×2 LCD display ? Draw and explain the interfacing circuit of 16×2 LCD module with microcontroller 8051. **2+8**

OR

(B) What is key debouncing ? Explain interfacing of 4×4 matrix type keyboard with 8051 microcontroller. **2+8**

5. Solve any TEN : **1*10**

a) How many ports are in 8051 microcontroller ?
b) Which ports of 8051 are used in address bus ?
c) State the functions of the ALE pin
d) What is the content of SP after executing both the instructions ?
e) MOV SP, # A2H
f) POP THO
g) What is the default stack location of 8051 μC ?
h) What is the importance of Return instruction ?
i) State the stack related instructions.
j) Explain ADDC instructions of 8051 microcontroller.
k) Explain SUBB instructions of 8051 microcontroller.
l) How many register banks are there in 8051microcontroller?
m) What is interfacing ?
n) What is the logic level standard of RS 232 ?
o) Draw the 8-bit format of SCON register.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF ELECTRONICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-4

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF ELECTRONICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-3

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	AASMIN ABDULKHALIK SHEIKH	8668323568	aasmin5029@gmail.com	ASheikh	ASheikh.	ASheikh.	
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF ELECTRONICS
Internal Assessment 2023-24
Attendance Sheet (DVV)
B. Sc. Sem.-VI
T-4

Sr. No.	Name of the Students	Test-1		TOTAL MARKS	Signature
		Paper-I	Paper-II		
1.	ADITYA RAVINDRA SINGH	06	10	16	
2.	ANKUSH SAMMA GAWADE	00	00	00	
3.	BHAGYARATHI RAMVINAY PANDEY	14	13	27	
4.	DURGESH SINGH	AB	AB	00	D. Singh
5.	DURGESH TULSIDAS ROKDE	AB	AB	00	
6.	JAY ANILBHAI PATIL	09	07	16	
7.	MANSI DILIP NANDANWAR	05	04	09	
8.	NIMISH GIRISH NAWGHARE	06	10	16	
9.	PRATHAM ANKUSH SITKARE	07	08	15	
10.	RAHUL RAMESH KAWADE	06	06	12	
11.	RENUKA VISHAL LANDE	02	01	03	
12.	SADHANA MITARAM PARDHI	06	06	12	
13.	SAKSHI VINOD KANADE	07	06	13	
	Sandeep Ayale	06	11	17	

14.	SAURAV KOMALPRASAD UIKEY	05	05	10	Saurav
15.	TUSHAR PARIHAR	19	06	25	Tushar
16.	UNNATITAI CHATRAPAL CHOPDE	06	04	10	Chopde
17.	URVASHI SUNILRAO UMATHE	09	08	17	Umathe
18.	YASH RAVINDRA KHEDEKAR	∞	05	5	
PME 19.	Sandeep funde	06	11	17	
1	AASMIN ABDULKHALIK SHEIKH	10	21	31	Asheikh.
2	**CHETAN UMASHANKAR BOPCHE**	05	04	09	
3	JANVI ASHOK KOSARKAR	AB	AB	∞	Janvi
4	PAWANKUMAR SHIVKUMAR VISHWAKARMA	AB	AB	∞	Pawan
5	PRAJWAL MULCHAND BHADE				
6	PRAKHAR RAJESH BURADKAR				Buradkar
7	PRIYANKA SHILANATH SHAH	02	04	06	Priyanka
8	MINAL MAHALE	09	19	28	M. Mahale

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- II Examination

Subject: Physics

Paper-I (Oscillations, Kinetic Theory of Gases and Thermodynamics)

Time: Three Hours] **[Maximum Marks:**50

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) What is damped harmonic oscillator ? Derive the differential equation for it and obtain an equation for its displacement. 5

(B)(i) Discuss the cases of critically damped motion and dead beat motion. 3

(ii) A mass of 25 gm is suspended with a vertical spring of force constant 25 N/m. The mechanical resistance of the system is 1.5 Ns/m. The mass is set to vertical oscillation. State whether the motion is oscillatory. 2

OR

(C) Obtain an expression for power dissipated in damped harmonic oscillators. 2½

(D) A particle executes S.H.M. with time period of 2 sec. and amplitude 5 cm. Find maximum velocity. 2½

(E) Find the equation for resultant motion of a particle when it is subjected by two perpendicular S.H.M.s having same frequency but different amplitudes and phases. 2½

(F) A particle executing a S.H.M. has a maximum displacement of 4 cm and its acceleration at a distance of 1 cm from its mean position is 3 cm/s^2. What will be its velocity, when it is at a distance of 2 cm from its mean position ? 2½

EITHER

2.(A) Derive the differential equation of forced harmonic oscillator. Solve the differential equation to obtain steady state solution. 5

(B)(i) Explain the sharpness of resonance curve. 3

(ii) Calculate the maximum amplitude of the forced harmonic oscillator at resonance with amplitude of driving force Fo = 6N, mass of damped oscillator is 0.2 kg, spring constant k = 100 Nm^{-1}, Damping constant R = 5 $Nm^{-1}s$. 2

OR

(C) What is quality factor ? Give the physical significance of quality factor of forced oscillator. 2½

(D) Calculate the resonant frequency of an acoustic system having Q = 2.8 and half power frequencies are 560 Hz and 780 Hz respectively. 2½

(E) Derive an expression for the power absorbed by a forced oscillator. 2½

(F) What is piezoelectric effect ? Discuss one of its application. 2½

EITHER

3.(A) Explain the transports phenmenon of gases. Derive an expression for coefficient of viscosity of gas molecules. Hence discuss the effect of temperature and molecular size of the gas molecules. 5

(B)(i) State and prove law of equipartition of energy. 3

(ii) Calculate the critical pressure of a gas having van der Waals' constants a = 0.37 Nm^4/mole and b = 43 cm^3/mole. 2

OR

(C) Define mean free path. Discuss the effect of temperature and pressure on mean free path. 2½

(D) Calculate mean free path of the molecules of gas at NTP if molecular diameter 2 × 10–8 m and K = 1.38 × 10–16 ergs deg. centigrade. 2½

(E) State van der Waals' equation of State of a real gas. What are its limitations ? 2½

(F) Obtain an expression for critical temperature, critical pressure and critical volume for a real gas. 2½

EITHER

4.(A) Explain Carnot's heat engine. Deduce an expression for total work done in a cycle. 5

(B)(i) Define entropy. Show that change in entrophy in reversible cycle is zero. 3

(ii) Find the efficiency of a Carnot's engine working between 127°C and 27°C. 2

OR

(C) Explain intensive and extensive thermodynamic variables with suitable examples 2½

(D) State first law of thermodynamics. Give the importance and limitations of it. 2½

(E) Calculate the change in entropy when a substance of Mass 0.5 gm is heated from 100 K to 300 K. (Specific heat of the substance = 0.1 cal/gm-K) 2½

(F) Write down the difference between reversible process and irreversible process. 2½

5. Attempt any **TEN** questions

(i) What is Liassajous Figure ?

(ii) Define free oscillation.

(iii) What is velocity resonance ?

(iv) Define force constant.

(v) Define degree of freedom.

(vi) Give the statement of Boyle's Law.

(vii) Define critical temperature of a gas.

(viii) State the third law of thermodynamics.

(ix) Define Joule-Thomson coefficient.

(x) Give the statement of Maxwell first thermodynamic relation.

(xi) What is cyclic process ?

(xii) State Zeroth's Law of thermodynamics.

1x10

Dharampeth M. P. Deo Memorial Science College, Nagpur
B.Sc. Semester—II (C.B.S.)Examination PHYSICS
(Gravitation, Astrophysics, Magnetism and Magneto Statics)

Paper—II Time : 3 Hours] **[Maximum Marks : 50]**

N.B. :— (1) ALL questions are compulsory.
(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (A) Derive an expression for the gravitational potential due to a solid sphere at a point :
(i) Outside
(ii) On the surface of sphere. 5
(B) (i) Define Gravitational Potential and Potential energy and obtain the relation between potential and intensity of gravitational field. 3
(ii) Calculate the intensity of gravitational field at a distance 0.2 m from the surface of a solid sphere of mass 20 kg and radius 20 cm. Given G = 6.67 × 10–11 Nm^2/kg^2. 2

OR

(C) Deduce an expression for gravitational self energy. 2½
(D) Calculate the gravitational energy of a galaxy if the distance between a pair of stars is averagely 1020 m and composed of 1.6 × 1011 stars of mass 2 × 1030 each. 2½
(E) Derive an expression for the Gauss's law. 2½
(F) State and explain Newton's law of gravitation. Define gravitation constant (G) 2½

EITHER

2. (A) What is Star ? Deduce an expression for the mass of the sun when a planet is orbiting in circular path of radius R. 5
(B) (i) Write short note on Asteroids and meteors. 3
(ii) A Star has a surface temperature of 1500°K. The Star will radiate its maximum energy in what part of spectrum ?
[Given : Wein's constant b = 3×10^{-3} mK] 2

OR

(C) What are Galaxies? Give their classification. 2½
(D) Write short note on corona of Sun. 2½
(E) Explain the significance of stellar spectrum. 2½
(F) Earth receives an amount of heat radiation 1.4 × 103 Wm^{-2} from the sun. Assume the earth emits all the radiation received from the Sun. Calculate the surface temperature of the earth. 2½

EITHER

3. (A) Explain Langevin's theory of diamagnetism and derive an expression for the magnetic Susceptibility of diamagnetic substance. 5
(B) (i) What is Curie-Weiss law ? Derive an expression for Curie temperature. 3
(ii) The magnetic susceptibility of a medium is 940 × 10–4. Calculate its absolute and relative permeability. 2

OR

(C) What are Ferrites? Write their applications. 2½
(D) Compare ferromagnetism and ferrimagnetism. 2½
(E) Explain the effect of temperature on antiferromagnetic material. 2½
(F) Lead in superconducting state has critical temperature of 6.2 K, at zero magnetic field and critical field of 0.064 Am–1 at 0 K. Determine the critical field at 4 K. 2½

EITHER

4. (A) Deduce Ampere's circuital law. Find the expression for magnetic field due to solenoid using Ampere's circuital law. 5

(B) (i) Obtain the expression for magnetic induction at a point due to a long straight conductor carrying current I. 3

(ii) 20 ampere current is flowing in a long straight wire. What will be the intensity of magnetic field at a distance 10 cm from the wire $\mu 0 = 4\pi \times 10–7$ wb/A-m 2

OR

(C) Explain the terms :—

(i) Magnetization current

(ii) Magnetic field vector. 2½

(D) State Biot-Savert's Law. Obtain an expression for magnetic field intensity near a straight conductor carrying current. 2½

(E) Deduce the relation between Br , Hr and Mr. 2½

(F) A circular coil of radius 5 cm has 50 turns and carries a current of 10 mA. Calculate the magnetic induction at the centre of coil. 2½

5. **Attempt any TEN** :—

(i)Define gravitational self energy.

(ii)State Kepler's second law of planetary motion.

(iii)Calculate the force of gravitation between two bodies of masses 1 kg each and distance of separation from their centre is 1 m ($G = 6.67 \times 10–11$ Nm2/kg2).

(iv) Write the sequence of planets in our solar system according to distance from Sun.

(v) Define a light year.

(vi) Give any two characteristics of star.

(vii)Give any two examples of paramagnetic material.

(viii) Define Curie temperature.

(ix) Write the formula for Bohr's magneton.

(x) Give the relation between Tesla and Gauss.

(xi) What is magnetic susceptibility?

(xii) Draw magnetic lines of forces in a bar magnet. 1 X 10

Dharampeth M. P. Deo Memorial Science College, Nagpur
B.Sc. Semester—II (C.B.S.)Examination PHYSICS
(Gravitation, Astrophysics, Magnetism and Magneto Statics)

Paper—II Time : 3 Hours] **[Maximum Marks : 50]**

N.B. :— (1) ALL questions are compulsory.
(2) Draw neat and labelled diagrams wherever necessary.

EITHER

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(ii) On the surface of sphere. 5
(B) (i) Define Gravitational Potential and Potential energy and obtain the relation between potential and intensity of gravitational field. 3
(ii) Calculate the intensity of gravitational field at a distance 0.2 m from the surface of a solid sphere of mass 20 kg and radius 20 cm. Given G = 6.67 × 10–11 Nm^2/kg^2. 2

OR

(C) Deduce an expression for gravitational self energy. 2½
(D) Calculate the gravitational energy of a galaxy if the distance between a pair of stars is averagely 1020 m and composed of 1.6 × 1011 stars of mass 2 × 1030 each. 2½
(E) Derive an expression for the Gauss's law. 2½
(F) State and explain Newton's law of gravitation. Define gravitation constant (G) 2½

EITHER

2. (A) What is Star ? Deduce an expression for the mass of the sun when a planet is orbiting in circular path of radius R. 5
(B) (i) Write short note on Asteroids and meteors. 3
(ii) A Star has a surface temperature of 1500°K. The Star will radiate its maximum energy in what part of spectrum ?
[Given : Wein's constant $b = 3 \times 10^{-3}$ mK] 2

OR

(C) What are Galaxies? Give their classification. 2½
(D) Write short note on corona of Sun. 2½
(E) Explain the significance of stellar spectrum. 2½
(F) Earth receives an amount of heat radiation 1.4 × 103 Wm^{-2} from the sun. Assume the earth emits all the radiation received from the Sun. Calculate the surface temperature of the earth. 2½

EITHER

3. (A) Explain Langevin's theory of diamagnetism and derive an expression for the magnetic Susceptibility of diamagnetic substance. 5
(B) (i) What is Curie-Weiss law ? Derive an expression for Curie temperature. 3
(ii) The magnetic susceptibility of a medium is 940 × 10–4. Calculate its absolute and relative permeability. 2

OR

(C) What are Ferrites? Write their applications. 2½
(D) Compare ferromagnetism and ferrimagnetism. 2½
(E) Explain the effect of temperature on antiferromagnetic material. 2½
(F) Lead in superconducting state has critical temperature of 6.2 K, at zero magnetic field and critical field of 0.064 Am–1 at 0 K. Determine the critical field at 4 K. 2½

EITHER

4. (A) Deduce Ampere's circuital law. Find the expression for magnetic field due to solenoid using Ampere's circuital law. 5

(B) (i) Obtain the expression for magnetic induction at a point due to a long straight conductor carrying current I. 3

(ii) 20 ampere current is flowing in a long straight wire. What will be the intensity of magnetic field at a distance 10 cm from the wire $\mu 0 = 4\pi \times 10–7$ wb/A-m 2

OR

(C) Explain the terms :—

(i) Magnetization current

(ii) Magnetic field vector. 2½

(D) State Biot-Savert's Law. Obtain an expression for magnetic field intensity near a straight conductor carrying current. 2½

(E) Deduce the relation between Br , Hr and Mr. 2½

(F) A circular coil of radius 5 cm has 50 turns and carries a current of 10 mA. Calculate the magnetic induction at the centre of coil. 2½

5. **Attempt any TEN** :—

(i)Define gravitational self energy.

(ii)State Kepler's second law of planetary motion.

(iii)Calculate the force of gravitation between two bodies of masses 1 kg each and distance of separation from their centre is 1 m ($G = 6.67 \times 10–11$ Nm2/kg2).

(iv) Write the sequence of planets in our solar system according to distance from Sun.

(v) Define a light year.

(vi) Give any two characteristics of star.

(vii)Give any two examples of paramagnetic material.

(viii) Define Curie temperature.

(ix) Write the formula for Bohr's magneton.

(x) Give the relation between Tesla and Gauss.

(xi) What is magnetic susceptibility?

(xii) Draw magnetic lines of forces in a bar magnet. 1 X 10

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (Home Science.)

SEM- II

Subject: Applied Physics and Basic Computer

Time: Three Hours] **Maximum Marks:**40

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

Q1 (A) What is the Coulombs law in Electrostatics? hence explain Electric Field. 08

OR

Q1 (B) Explain combination of resistances in series and parallel. 08

EITHER

Q2 (A) What is the electromagnetic waves and explain two mode of it. 08

OR

Q2 (B) Explain Snell's laws in refraction and what is the refractive index 08

EITHER

Q3 (A) What is lens? Hence explain pole, principal axis and focal length. 08

OR

Q3 (B) What are the X- rays? Which arrangement is use for production of X-ray. 08

EITHER

Q4(A) What is mother board? hence explain RAM and ROM in brief. 08

OR

Q4 (B) What is printer and its principal? Explain DOT MATRIX and LASER printer 08

Q5 Attempt any **EIGHT** questions 08

1. What is the Ohms law in current electricity

2. Give any two examples of good conductors
3. What is speed of electromagnetic waves in vacuum?
4. What is refraction of light?
5. What is the convex lens?
6. Write any two properties of X-ray
7. What is input device of computer?
8. Write any two properties of mother board
9. What is the resistance write its SI unit?
10. What are any two properties of α-rays ?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-1

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	ANCHVEER RAJESH CHIMANE	9529925377	anchveerchimane13@gmail.com				
2.	GIRENDRA KANHAIYALAL CHAUDHARY	7972882455	girendra08@gmail.com				
3.	OM SHRIRAM KALASKAR						
4.	SUMIT RAMBABU MAHATO						
5.	TUSHAR VASUDEO MANERAO						
6.	URVASHI JIVANPRAKASH LIMJE	8459021488	urvashilimje5@gmail.com				
7.							

8.							
9.							
10.							

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad

IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of the Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe

Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-3

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	HIMANSHU LILADHAR ZILE	7798521824	Himanshu Zile 77@gmail.com				
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3.	ROHIT MANOHAR PATIL						
4.	SHREYANSH RAVINDRA SATPUTE						
5.	VEDANT DNYANESHWAR MOHANKAR						
6.							
7.							
8.							
9.							

10.							

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Nitin Gaikwad

IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-5

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	PRERNA SANTOSHKUMAR SINGH	6299619449	Prerermasingm30@gmail	Prerna	Prerna		
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3.	PRATIKSHA MANOHAR UIKEY						
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5.	PALAK RANJEETNARAYAN PANDE	8421388291	pande2005palak@gmail.com	Palak	Palak		
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7.	DIVYANI VIJAY THOSAR	9309927883	divyanithosar93@gmail.com	Divyani			
8.	VAIDEHI SANJAY MESHRAM	9561939026	vaidehi0108	Vaidehi	Vaidehi		
9.	SHARWARI RAJESH SAHASTRABUDDHE	8830447619	sharwarisahastrabuddhe @gmail.com	Sharwari	Sharwari		
10.	SHEJAL PRALHAD DHALE						

11.	MOHIT JAYLAL BHUJADE	8047387801	bhujademohit8@gmail.com		MBhujade		
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14.	SUHANI RAJESH CHAUBEY	7566237408	schaubey500@gmail.com	Schaubey	Schaubey		
15.	AMAN NIRANJAN BUNDE						
16.	MAYURI ANIL KALE						
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24.	AMAN DILIP KUMAR	7757892285	amankumar2662k@gmail.com	Aman			
26.	RAVISHANKAR YADAV ZADE						
27.	PALAK RANJEETNARAYAN PANDE						
28.	Manali. Dilip. Dhauapune	9284227616	manalidhauapune@gmail.com	Manali	Manali		
29.							
30.							

31.							
32.							

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-7,8,9,10

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	ABHIJIT SHYAMKISHOR RAUT						
2.	ABHISHEK AMOL THAKRE						
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5.	AYUSH HEDAU	7757932849	ayushhedau012@gmail.com				
6.	CHIRAG BHOJRAJ MANMODE						
7.	DEEPAK AKSHAYKUMAR SONI	7410145724	deepak2004soni@gmail.com				
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10.	KHUSBU JAYKISHOR YADAV	9511702977	yjaykishor013@gmail.com				

11.	NAMRATA RAJESH HUNDIWALE						
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13.	PIYUSH MAROTI LAKSHANE						
14.	PRAJWAL PRAKASH UDAN						
15.	PRATIK SURENDRA THOOL	7972748862	Pratikt23kos@gmail.com				
16.	RAHUL RAJU BAWANE						
17.	RUDRAKSH KISHOR KHURGE						
18.	RUSHIKESH DEVIDAS DEHARE	7038202068	dewidasdeha@gmail	X			
19.	SAGAR HEMRAJ BOHANE	9359326302	Sagarbohane30@				
20.	SEJAL VILAS DHENGALE						
21.	TEJAS BABARAO RAJURKAR						
22.	VASHISTA PAL						
23.	VEDANT GAJANAN PARKHI						
24.	VIKAS JAGDAMBA YADAV						
25.							

26.							
27.							
28.							
29.							
30.							

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad
IQAC Coordinator
Dharampeth M. P. Deo Memorial Science College, Nagpur-440033

IQAC Coordinator

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Dr. Akhilesh Peshwe

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RTM NAGPUR UNIVERSITY PRACTICAL EXAMINATION SUMMER -2024

BSc. I Sem II — DEPARTMENT OF PHYSICS

Sr No	Roll No	Name of students	T1	T2	IA-1	IA-2	TOTAL	PRACT	TOAL	RESULT
1	318527	ABHIJIT SHYAMKISHOR RAUT	2	0	7	7	16	23	39	fail
2	318528	ABHISHEK AMOL THAKRE	0	1	7	7	15	AA	15	fail
3	318535	ANISH HARENDRA DUBEY	7	2	9	9	27	26	53	fail
4	318433	ASHWINI PRAKASH NAKHATE	2	2	7	7	18	27	45	fail
5	318543	AYUSH SURESH HEDAU	0	6	10	10	26	25	51	fail
6	318545	CHIRAG BHOJRAJ MANMODE	1	2	7	8	18	25	43	fail
7	318549	DEEPAK AKSHAYKUMAR SONI	10	2	9	9	30	26	56	fail
8	318550	DIVYANSH A SINGH	2	1	10	10	23	26	49	fail
9	318453	KHUSBU JAYKISHOR YADAV	33	16	10	10	69	25	94	pass
10	318471	PALAK JITENDRA SINGH	33	14	10	10	67	28	95	pass
11	318569	PRATIK SURENDRA THOOL	28	27	8	10	73	27	100	pass
12	318575	RUDRAKSH KISHOR KHURGE	1	0	7	7	15	AA	15	fail
13	318576	RUSHIKESH DEVIDAS DEHARE	18	18	9	9	54	25	79	pass
14	318591	TEJAS BABARAO RAJURKAR	0	AA	7	7	14	AA	14	fail
15	318595	VAISHISHTA ARUN PAL	AA	AA	7	7	14	AA	14	fail
16	318596	VEDANT GAJANAN PARKHI	0	AA	7	7	14	24	38	fail
17	318552	GANESH WAGHMARE	3	0	8	8	19	25	44	fail
18	318577	SAGAR HEMRAJ BOHANE	0	11	9	10	30	25	55	fail
19	318519	URVASHI JIVANPRAKASH LIMJE	34	18	9	10	71	29	100	pass
20	318531	ANCHVEER RAJESH CHIMANE	8	2	10	10	30	29	59	fail
21	318565	OM SHRIRAM KALASKAR	AA	AA	7	7	14	AA	14	fail
22	318554	GIRENDRA k.CHAUDHARY	13	13	8	10	44	28	72	fail
23	318589	SUMIT RAMBHAU MAHATO	0	AA	7	7	14	AA	14	fail
24	318593	TUSHAR VASUDEO MANERAO	0	0	7	7	14	25	39	fail
25	318557	HIMANSHU LILADHAR ZILE	0	0	9	10	19	AA	19	fail
26	318566	OM VIJAY RAUT	2	12	10	10	34	30	64	fail
27	318574	ROHIT MANOHAR PATIL	7	0	7	7	21	28	49	fail
28	318585	SHREYANSH RAVINDRA SATPUTE	23	17	7	7	54	26	80	pass
29	318514	TANUSHREE B DANGRE	12	2	10	9	33	29	42	fail
30	318474	PALLAVI PRAKASH MATHANE	10	25	10	10	55	30	85	pass
31	318473	PALAK RANJEETNARAYAN PANDE	6	3	9	9	27	28	55	fail
32	318472	PALAK PAWAN JAWADE	2	1	10	10	23	29	52	fail
33	318471	PALAK JITENDRA SINGH	33	14	10	10	67	28	95	pass
34	318432	MEGHA SAMIR MANNA	29	25	10	10	74	29	103	pass

35	318469	NANDINI RAMKRUSHNA KALBHUT	14	17	10	10	51	29	80	pass
36	318498	MANALI DILIP DHARAPURE	12	20	10	10	52	28	80	pass
37	318459	MAYURI ANIL KALE	2	1	7	8	18	24	42	fail
38	318439	DIVYANI VIJAY THOSAR	11	12	10	9	42	27	69	fail
39	318584	SHASHIKANT G. BANGADKAR	0	5	9	9	23	26	49	fail
40	318520	VAIDEHI SANJAY MESHRAM	12	14	9	9	44	28	72	fail
41	318500	SHARWARI R SAHASTRABUDDHE	15	8	9	10	42	29	71	fail
42	318501	SHEJAL PRALHAD DHALE	7	7	AA	14	AA	14	0	fail
43	318561	MOHIT JAYLAL BHUJADE	7	0	9	9	25	25	50	fail
44	318586	SHUBHAM SURENDRA KUSHWAHA	18	12	9	9	44	27	71	fail
45	318511	SUHANI RAJESH CHAUBEY	31	44	10	10	97	30	127	pass
46	318530	AKSHAD SANJAY THAKARE	0	18	9	9	36	25	41	fail
47	318562	NEERAJ RAMNIVAJ VISHWAKARMA	1	13	9	10	33	26	59	fail
48	318537	ARPIT ARVIND GAJBHIYE	7	2	9	9	27	28	55	fail
49	318559	MANDAR DILIP VYAWAHARE	10	19	9	9	47	27	74	fail
50	318531	AMAN KUMAR	9	1	10	9	29	28	57	fail
51	318571	RAVISHANKAR Y ZADE	0	0	7	7	14	AA	14	fail
52	318603	ADITI S JOGI	19	16	9	9	53	22	75	pass

PASS	13
FAIL	39
PERCENTAGE	25%
TOTAL STUDENTS	52

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- IV Examination

Subject: Physics

Paper-I (Solid State Physics, X-Ray and LASER)

Time: Three Hours] **[Maximum Marks:**50

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) Explain the classification of crystal systems. 5

(B)(i) What are the fundamental symmetry operations shown by the crystal? 3

(ii) Determine the lattice constant of FCC lead crystal of radius 1.746 Å. 2

OR

(C) Describe structure of diamond. 2½

(D) What is Bravais lattice? What are different Bravais lattices for cubic structure? 2½

(E) Prove that the packing fraction in BCC structure is 0.68. 2½

(F) In a trigonal crystal, find the length of intercepts of a plane on the axes if the Miller indices of the plane are (123). 2½

EITHER

2.(A) Explain construction and operation of Coolidge X-ray tube, give its characteristics. 5

(B)(i) What is Mosley law? Give its application. 3

(ii) Calculate the minimum applied potential required to produce X-ray 1 Å wavelength. 2

OR

(C) Explain Auger effect. 2½

(D) Explain Duane and Hunt's law. 2½

(E) State the applications of X-rays. 2½

(F) Calculate the wavelength of radiation coming out of Co (Z = 27), if K_α radiation of Mo (Z = 2) has a wavelength of 0.75 Å. 2½

EITHER

3.(A) Explain construction and working of a Bragg's X-ray spectrometer. 5

(B)(i) Explain in brief different methods of X-ray diffraction in crystallography. 3

(ii) Monochromatic X-ray of wavelength 1.2 Å are incident on a crystal plane. Find angular position of different orders of Bragg's diffraction if interplanar spacing is 1.4 Å. 2

OR

(C) A beam of X-rays is incident on a crystal having lattice spacing 2.819×10^{-6} m. The first order Bragg's reflection is observed at an angle of 8°35'. What is the wavelength of X-rays? 2½

(D) Explain the significance and properties of reciprocal lattice. 2½

(E) Explain Laue's method of X-ray diffraction. 2½

(F) Explain the determination of crystal structure by Bragg's method. 2½

EITHER

4.(A) What is LASER? Discuss the spontaneous and stimulated emission process in a LASER. 5

(B)(i) Establish the relation between Einstein's coefficients A and B. 3

(ii) Find the intensity of a laser beam of 10 mW power and having a diameter of 1.3 mm. Assume the intensity to be uniform across the beam. 2

OR

(C) Explain the applications of Laser. 2½

(D) Explain construction and working of semiconductor laser. 2½

(E) Discuss population inversion in Laser. 2½

(F) The coherence length of sodium line of wavelength 5890 Å is 2.5 cm. Calculate coherence time and half width of spectral line. Given : $C = 3 \times 10^8$ m/s. 2½

5. Attempt any **TEN** questions

(i) Define unit cell.

(ii) Define Wigner-Seitz cell.

(iii) What is coordination number? Obtain for SC, BCC and FCC system.

(iv) Which one has higher frequency—visible light or X-rays?

(v) What is the difference between soft and hard X-rays?

(vi) Give the disadvantages of Rontgen tube.

(vii) What is reciprocal lattice?

(viii) What is Ewald construction?

(ix) What is the drawback of Laue's method of X-Ray diffraction?

(x) What is metastable state?

(xi) Write the characteristics of LASER.

(xii) Define coherence time. 1x10

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- IV Examination

Subject: Physics

Paper-II (Solid State Electronics And Molecular Physics)

Time: Three Hours] **[Maximum Marks:**50

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) Define h parameter. Draw h parameter equivalent circuit of transistor in CE mode. Obtain h parameters equation using two port network for CE mode. 5

(B)(i) Explain construction and working of light emitting diode. 3

(ii) An LED is made up of Gallium Arsenide Phosphide for which the band gap energy $E_g = 1.6$ V at 300 K. Calculate the wavelength of light emitted by it, when it is in forward biased. (Given h $= 6.63\times10^{-34}$ JS, q = 1.6×10–19 C, C = 3×10^{8} m/s) 2

OR

(C) Explain working of npn transistor. 2½

(D) Explain construction and working of solar cell. 2½

(E) Draw circuit diagram to study transistor characteristics in CB mode and explain its input, output characteristics. 2½

(F) A transistor is connected in CE mode. The voltage drop across 5 kW resistor which is connected in the collector circuit is 5 V. Find the base current. The current gain a of the transistor is 0.998. 2½

EITHER

2.(A) Explain with neat diagram the working of JFET as a common source amplifier. Derive an expression for the input and output impedance and voltage gain of an amplifier. 5

(B)(i) Explain the static drain characteristics and transfer characteristics of enhancement MOSFET. 3

(ii) Calculate the voltage gain of JFET voltage amplifier having transconductance 4000 mho and the load resistance of 10 kW. 2

OR

(C) Define the parameters of JFET and obtain the relation between them. 2½

(D) State the advantages of JFET and MOSFET over Bipolar Junction Transistor (BJT). 2½

(E) Describe construction of N-channel depletion MOSFET. 2½

(F) The following readings were obtained experimentally for a JFET : Vas (volt) : 0 0 0.2 V_{DS} (volt) : 7 16 16 I_D (mA) : 10 10.3 9.8 Calculate : (i) ac drain resistance (ii) transconductance (iii) amplification factor. 2½

EITHER

3.(A) Obtain an expression for rotational energy of a diatonic molecule. 5

(B)(i) Draw and explain energy level diagram in vibrational-rotational spectra. 3

(ii) The force constant of the CO band is 187 N/m. Find the frequency of vibration of CO molecule. (Mass of C_{12} atom = 1.99×10–26 kg and mass of O_{16} atom = 2.66×10^{-26} kg) 2

OR

(C) With suitable example, give the classification of molecule on the basis of moment of inertia. 2½

(D) What is the difference between zero point energy of a harmonic and an harmonic oscillator? 2½

(E) Obtain an expression for the moment of inertia of two nuclei about their centre of mass HCl molecule. 2½

(F) The wave number of the lines in a band are given by n_ = 1000 (2n – 1) for n positive and by n_ = –1000 (2n + 1) for n negative. Calculate the moment of inertia of the emitter molecule of the spectrum. 2½

EITHER

4.(A) What is Raman effect ? Discuss experimental arrangement to study Raman effect and obtain the expression for Raman shift. 5

(B)(i) Discuss the quantum mechanical explanation of Raman effect. 3

(ii) While exciting line 2536 Å a Raman line for a sample is observed at 2612 Å, Calculate the Raman shift in cm^{-1}. 2

OR

(C) Explain with block diagram, the working of NMR spectrometer. 2½

(D) What are the applications of ESR spectroscopy ? 2½

(E) Describe the existence of Stokes and Anti stokes lines on the basis of quantum theory. 2½

(F) The small (rotational) Raman displacement for HCl molecule is 41.6 cm–1. Find the internuclear distance between the atoms forming the molecule.Given : h = 6.63×10–34 Js, C = 3.0×10^{8} m/sec and NA = 6.023×10^{23} mol^{-1}. 2½

5. Attempt any **TEN** questions

(i) Define stability factor.

(ii) State applications of LED.

(iii) Calculate the current amplification factor in CE mode in D I C = 10 mA and D I B = 0.5 mA.

(iv) Draw symbol of N-channel and P-channel depletion MOSFET.

(v) Explain why a depletion region in JFET is wedge shaped.

(vi) Calculate the resistance between gate and source if reverse gate voltage of 15 V which produce gate current 10–3 mA in a given JFET.

(vii) Why homo nuclear molecule do not show rotational spectra ?

(viii) State the Born-Oppenheimer approximation.

(ix) Calculate the spacing between vibrational energy level for frequency of vibration 2.04×10^{13} Hz.

(x) What is meant by heat of dissociation ?

(xi) State Franck-Condon principle.

(xii) Calculate the wave number of Raman line of wavelength 4358 Å. 1x10

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-7,8,9,10

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	BHILKAR MRUNALI DILIP VAISHALI	9322727616	mrunalibhilkar@gamiel.com.	Bhilkar	Bhilkar.		
2.	BHOYAR RITIKA RAVINDRA BABITA R BHOYAR	9834587087	ritikabhoyar28@gmail.com	Bhoyar	Bhoyar		
3.	BHUSARI PRATIBHA BABARAO VANDANA						
4.	CHAUDHARY SAURABH SURESH SANGEETA						
5.	DAHEKAR PRATIK GANPAT CHANDA						

6.	DHURVE OM SURESH RAJSHREE						
7.	GOSAVI ADITYA SHRAWAN PRITI						
8.	KUMRE NIKHIL RAMSINGH DURGESHWARI	8999040961	kumrenikhil12@gmail.com	Kumre	Kumre		
9.	KUSRAM ARPITA TARACHAND VAISHALI KUSRAM	9146162921	arpitakusram23@gmail.com	Kusram	Kusram		
10.	MANSURI SOHEL KALAM JALINA						
11.	MATE ANJALI NARENDRA ARTI NARENDRA MATE						
12.	MESHRAM NIHAL VISHAL VANDANA MESHRAM	8767792960	nihalmeshram71@gmail.com				
13.	MESHRAM RAJESH YASHWANT MALA MESHRAM						
14.	MISHRA SURAJ MUNNALAL SAVITA MISHRA						

15.	NAGAPURE BHUSHAN SUNIL DIPALI SUNIL NAGAPURE						
16.	PATEL ANKIT RAJKUMAR SHAKUNTALA						
17.	PATEL MONIKA INDRABHAN ASHA PATEL	7499225468	monikapatel108@gmail.com	Mpatel	Mpatel		
18.	PATEL SHIVAM UMESH KANCHAN						
19.	PATLE SHITAL OMKAR SANGITA	9764586337	SP 985569 @gmail.com	Spatle	Spatle		
20.	PENDAM TANESH DHANANJAY PRITI						
21.	PISE SHRUTIKA GAJANAN SHUBHANGI	9322316336	shrutikapise67@gmail.com	Spise	Spise		
22.	PUSHPTODE KHINESHWARI RADHESHYAM NIRMALA	8624976072	khineshwaripushpted@gmail.com	Kh	Kh		
23.	SAH VIVEK SANTOSH SAVITA						

24.	TAGDE DIVYA MORESHWAR VISHAKHA	7350090176	divyatagde868@gmail.com	Tagde	Tagde		
25.	TEWARE TANMAY PRAFUL TARA						
26.	THAKRE PAWAN GUNWANT SAVITA	8262969713	thakrepo58@gmail.com	P Thakre	P Thakre		
27.	THAKRE YOGITA KHEMRAJ GITA	7841024443	yogitathakre2584@gmail.com	yThakre	yThakre		
28.	YADAV PRIYANSHU DINESH PADMA						
29.	Ruchi Dwivedi	7620103790	Ruchidwivedi230@gmail.com	Ruchi	Ruchi		
30.	Ashwini Chaudhary	9699792732	chaudharyashwini287@gmail.com	A.R Chaudhary	A.R Chaudhary		
31.	Vaishali Sahare	7972925403	Vaishalisahare251@gmail.com		Vaishali		

Name & Signature of Teacher In-Charge

Gaikwad

Dr. Nitin Gaikwad
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-1

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I 10/04/2024	Paper-II 12/04/2024		
1.	AGASHE DEVANGI SHRIKANT						
2.	BALLAV MEGHA SHANKAR	9421728880	meghaballav01@gmail.com	Ballav	Ballav		
3.	DHAGE YADNYIK SHASHANK	8623062678	ysdhage0106@gmail.com	YSD.	YSD.		
4.	DUBEY SURAJ RAJBIHARI						
5.	GAIKWAD SRUSHTI ARUN						
6.	SINGH AKSHAY RANJIT	9325921260	akshaysingh358089@gmail.com	Akshay	Akshay		
7.	WALTHARE NAYAN NANAJI	7841870947	Nayanwalthare4@gmail.com	Walthare	Walthare		
8.	Yamini Pramod Sawarkar	7498874633	yaminibucan06@gmail.com	Yamini	Yamini		

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

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Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-3

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	HARSHATA GUNDERAO WARKHEDE	8263977208	harshatawarkhede@gmail.com	Hwarkhede	Hwarkhede		
2.	PRERNA MARTANDRAO NIMBALKAR	8379980503	Nikenimbalkar475@gmail.com	Pnimbalka	Pnimbalkar		
3.	YOGITA JAYSING KAREMORE	8381045307	yogita.karemore25@gmail.com	Ykaremore	Ykaremore		
4.							

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Nitin Gaikwad
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

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Principal

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Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF PHYSICS

Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-5

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	ADITI SUBHASH JOGI	9579962108	aditi.2002jogi@gmail.com	Aditi Jogi	Aditi Jogi		
2.	AMAN SUJIT KARN	9028837552	karn7817@gmail.com		Aman		
3.	ATUL DEVISINGH THAKRE	9881956597	thakredevisingh@gmail.com	Thakre	Thakre		
4.	BADAL GENDLAL SOMKUWAR	7448247750	badalsomkuwar1@gmail.com	Somkuwar	Somkuwar		
5.	DIVYANI GOPAL ZADE	7972403069	divyanizade2005@gmail.com	Zade	Zade		
6.	GENDLAL BHOJRAJ MACHADE	9112142728	nikhilmachade2005@gmail.com	[illegible]	[illegible]		
7.	KALYANI PRAVIN FARTADE						
8.	KARTIK NARENDRA MIRE	9604792402	Kartikmire2004@gmail.com	Kartik	Kartik		

9.	LUCKY AKHANDPRATAP VISHWAKARMA						
10.	MAHESH DHARAMRAJ PAWDE	7499393930	pawdemahesh97@gmail.com	M Pawde	M Pawde		
11.	MONU PARDHARI PAL	9350450579	monupal@735045@gmail.com				
12.	MUSKAN CHANDRASHEKHAR VAIDYA	9309773287	muskanvaidya9@gmail.com	M Vaidya	M Vaidya		
13.	PRACHI GAURISHANKAR PARDHI	7263935912	Prachiparelhi28@gmail.com	P.G. Pardhi	P.G. Pardhi		
14.	PRACHI KRUSHNA GAJBHIYE						
15.	PRATIKSHA GHANSHYAM BARVE						
16.	SAMIKSHA AMRUT PANCHBUDHE	9763075890	Samikshapanch-budhe363@gmail.com	S. Panchbudhe	S. Panchbudhe		
17.	SAMIKSHA DALCHAND SHENDRE	7420881158	samikshashendre08@gmail.com	Shendre	Shendre		
18.	TANUJA GHANSHYAM YELURE	9529447565	tanujayelure728@gmail.com	T.G. Yelure	T.G. Yelure		
19.	TRUSHABH DIPANKAR SAHA	8087300294	trushabh.saha2004@gmail.com				

20.	VAIDEHI PRAMOD NAGOLKAR	9325963446	vaidehinagolkar07@gmail.com	Vaidehi	Vaidehi		
21.	VIBHANSHU KRUSHNA TAJNE	9561232204	Vibhanshukrune7@gmail.com	Vibhanshu	Vibhanshu		
22.	Pratik Devidas Chalakh	9021640532	pratikchalakh007@gmail.com	P.D. Chalakh	P.D. Chalakh		
23.	LUCKY KANKRAJ Navghare	9359626522	navghrelucky@gmail.com	Lucky	Lucky		
24.							

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad
IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Name & Signature of Head of the Department

Dr. Akhilesh Peshwe
Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

TM NAGPUR UNIVERSITY EXAMINATION SUMMER -2024

Sc. II
em IV

DEPARTMENT OF PHYSICS

Sr No	Roll No	Name of students	T1	T2	IA-1	IA-2	TOTAL	PRA	TOAL	RESULT
1	291274	ADITI SUBHASH JOGI	32	19	9	10	70	23	93	pass
2	291288	DEVANGI SHRIKANT AGASHE	14	3	7	7	31	AA	31	FAIL
3	291378	AMAN SUJIT KARN	6	2	7	9	24	26	50	FAIL
4	291277	ANJALI MATE	2	15	7	6	30	21	51	fail
5	291380	ANKIT PATEL	4	4	7	7	22	26	48	FAIL
6	291282	ARJU S. RAI	27	22	8	7	64	24	88	Pass
7	291283	ARPITA KUSRAM	27	22	9	9	67	27	94	pass
8	291286	ASHWINI R. CHAUDHARY	18	17	9	6	54	28	82	pass
9	291386	ATUL DEVISINGH THAKRE	5	3	9	8	25	23	48	FAIL
10	291384	BADAL GENDLAL SOMKUWAR	21	3	9	10	43	29	72	FAIL
11	291317	BALLAV MEGHA SHANKAR	36	36	10	10	92	30	122	PASS H1
12	291385	BHUSHAN NAGAPURE	AA	AA	7	7	14	19	AA	W/T
13	291432	DHAGE YADNYIK SHASHANK	16	16	9	9	50	24	74	PASS
14	291291	DIVYA TAGDE	26	18	10	9	63	23	86	PASS
15	291292	DIVYANI GOPAL ZADE	28	24	9	9	70	28	98	PASS H3
16	291419	DUBEY SURAJ RAJBIHARI	10	1	7	7	21	25	46	FAIL
17	291357	GAIKWAD SRUSHTI ARUN	2	0	7	7	16	AA	16	FAIL
18	291387	GENDLAL BHOJRAJ MACHADE	8	17	9	10	44	29	73	FAIL
19	291298	HARSHATA GUNDERAO WARKHEDE	16	7	8	9	40	23	63	FAIL
20	291388	HRITIK H. HIRANWAR	4	1	7	7	19	19	38	FAIL
21	291306	KALYANI PRAVIN FARTADE	13	2	7	7	29	23	52	FAIL
22	291389	KARTIK NARENDRA MIRE	2	4	9	9	24	22	46	FAIL
23	291309	KHINESHWARI PUSHPTODE	13	6	9	9	37	29	66	FAIL

		DIPANKAR SAHA					
54	291364	VAIDEHI PRAMOD NAGOLKAR	21	7	9	8	45
55	291366	VAISHALI M. SAHARE	0	3	9	9	21
56	291429	VIBHANSHU KRUSHNA TAJNE	16	13	9	9	47
57	291431	VIVEK SAH	9	0	7	7	23
58	291395	WALTHARE NAYAN NANAJI	10	2	9	10	31
59	291373	YOGITA THAKRE	13	14	9	10	46
60	291433	YOGITA JAYSING KAREMORE	6	0	10	9	25
		PASS	15				
		FAIL	45				
		PERCENTAGE	25%				
		TOTAL STUDENTS	60				

24	291391	LUCKY K. NAVGHARE	3	13	9	8	33	23	56	FAIL
25	291392	MAHESH PAWDE	25	20	10	9	64	29	93	pass
26	291319	MONIKA PATEL	30	15	9	10	64	29	93	PASS
27	291395	MONU PARDHARI PAL	10	2	9	10	31	26	57	FAIL
28	291320	MRUNALI BHILKAR	9	5	9	8	31	28	59	FAIL
29	291321	MUSKAN CHANDRASHEKHAR VAIDYA	4	2	8	9	23	23	46	FAIL
30	291397	NIHAL MESHRAM	5	AA	9	10	24	26	50	W/T
31	291398	NIKHIL KUMRE	0	1	9	9	19	22	41	FAIL
32	291400	OM DHURVE	0	0	7	7	14	AA	14	W/T
33	291401	PAWAN THAKRE	0	6	9	9	24	AA	24	FAIL
34	291326	PRACHI GAURISHANKAR PARDHI	18	3	9	9	39	24	63	FAIL
35	291332	PRATIBHA BHUSARI	18	13	8	9	48	29	77	PASS
36	291402	PRATIK D. CHALAKH	2	4	8	9	23	25	48	FAIL
37	291403	PRATIK H. HIRANWAR	3	2	7	7	19	19	38	FAIL
38	291334	PRERNA MARTANDRAO NIMBALKAR	0	1	9	10	20	23	43	FAIL
39	291407	PRIYANSHU YADAV	6	4	7	7	24	21	45	FAIL
40	291338	RITIKA BHOYAR	5	8	8	8	29	28	57	FAIL
41	291341	RUCHI P. DWIVEDI	33	17	9	10	69	27	96	PASS
42	291343	SAMIKSHA AMRUT PANCHBUDHE	27	27	9	10	73	28	101	PASS H2
43	291347	SAMIKSHA DALCHAND SHENDRE	18	5	9	8	40	27	67	FAIL
44	291415	SAURABH CHAUDHARY	14	19	7	7	39	26	65	FAIL
45	291349	SHITAL PATLE	30	9	9	9	57	28	85	pass
46	291352	SHRUTIKA PISE	18	8	8	9	43	28	71	FAIL
47	291377	SINGH AKSHAY RANJIT	17	6	9	9	41	23	64	FAIL
48	291417	SOHEL MANSURI	0	AA	7	7	14	AA	0	W/T
49	291418	SURAJ MISHRA	0	2	7	9	18	AA	18	FAIL
50	291420	TANESH PENDAM	0	AA	7	7	14	20	34	FAIL
51	291421	TANMAY TEWARE	AA	AA	7	7	14	AA	14	FAIL
52	291360	TANUJA GHANSHYAM YELURE	17	19	8	9	53	24	77	PASS
53	291424	TRUSHABH DIPANKAR SAHA	11	1	9	7	28	19	47	FAIL
54	291364	VAIDEHI PRAMOD NAGOLKAR	21	7	9	8	45	25	70	FAIL

24	291391	LUCKY K. NAVGHARE	3	13	9	8	33
25	291392	MAHESH PAWDE	25	20	10	9	64
26	291319	MONIKA PATEL	30	15	9	10	64
27	291395	MONU PARDHARI PAL	10	2	9	10	31
28	291320	MRUNALI BHILKAR	9	5	9	8	31
29	291321	MUSKAN CHANDRASHEKHAR VAIDYA	4	2	8	9	23
30	291397	NIHAL MESHRAM	5	AA	9	10	24
31	291398	NIKHIL KUMRE	0	1	9	9	19
32	291400	OM DHURVE	0	0	7	7	14
33	291401	PAWAN THAKRE	0	6	9	9	24
34	291326	PRACHI GAURISHANKAR PARDHI	18	3	9	9	39
35	291332	PRATIBHA BHUSARI	18	13	8	9	48
36	291402	PRATIK D. CHALAKH	2	4	8	9	23
37	291403	PRATIK H. HIRANWAR	3	2	7	7	19
38	291334	PRERNA MARTANDRAO NIMBALKAR	0	1	9	10	20
39	291407	PRIYANSHU YADAV	6	4	7	7	24
40	291338	RITIKA BHOYAR	5	8	8	8	29
41	291341	RUCHI P. DWIVEDI	33	17	9	10	69
42	291343	SAMIKSHA AMRUT PANCHBUDHE	27	27	9	10	73
43	291347	SAMIKSHA DALCHAND SHENDRE	18	5	9	8	40
44	291415	SAURABH CHAUDHARY	14	19	7	7	39
45	291349	SHITAL PATLE	30	9	9	9	57
46	291352	SHRUTIKA PISE	18	8	8	9	43
47	291377	SINGH AKSHAY RANJIT	17	6	9	9	41
48	291417	SOHEL MANSURI	0	AA	7	7	14
49	291418	SURAJ MISHRA	0	2	7	9	18
50	291420	TANESH PENDAM	0	AA	7	7	14
51	291421	TANMAY TEWARE	AA	AA	7	7	14
52	291360	TANUJA GHANSHYAM YELURE	17	19	8	9	53
53	291424	TRUSHABH	11	1	9	7	28

55	291366	VAISHALI M. SAHARE	0	3	9	9	21	20	41	FAIL
56	291429	VIBHANSHU KRUSHNA TAJNE	16	13	9	9	47	25	72	FAIL
57	291431	VIVEK SAH	9	0	7	7	23	19	42	FAIL
58	291395	WALTHARE NAYAN NANAJI	10	2	9	10	31	26	57	FAIL
59	291373	YOGITA THAKRE	13	14	9	10	46	28	74	FAIL
60	291433	YOGITA JAYSING KAREMORE	6	0	10	9	25	22	47	FAIL

PASS	15
FAIL	45
PERCENTAGE	25%
TOTAL STUDENTS	60

RTM NAGPUR UNIVERSITY EXAMINATION SUMMER -2024

BSc. II Sem IV							DEPARTMENT OF PHYSICS
Sr No	Roll No	Name of students	T1	T2	IA-1	IA-2	TOTAL
1	291274	ADITI SUBHASH JOGI	32	19	9	10	70
2	291288	DEVANGI SHRIKANT AGASHE	14	3	7	7	31
3	291378	AMAN SUJIT KARN	6	2	7	9	24
4	291277	ANJALI MATE	2	15	7	6	30
5	291380	ANKIT PATEL	4	4	7	7	22
6	291282	ARJU S. RAI	27	22	8	7	64
7	291283	ARPITA KUSRAM	27	22	9	9	67
8	291286	ASHWINI R. CHAUDHARY	18	17	9	6	54
9	291386	ATUL DEVISINGH THAKRE	5	3	9	8	25
10	291384	BADAL GENDLAL SOMKUWAR	21	3	9	10	43
11	291317	BALLAV MEGHA SHANKAR	36	36	10	10	92
12	291385	BHUSHAN NAGAPURE	AA	AA	7	7	14
13	291432	DHAGE YADNYIK SHASHANK	16	16	9	9	50
14	291291	DIVYA TAGDE	26	18	10	9	63
15	291292	DIVYANI GOPAL ZADE	28	24	9	9	70
16	291419	DUBEY SURAJ RAJBIHARI	10	1	7	7	21
17	291357	GAIKWAD SRUSHTI ARUN	2	0	7	7	16
18	291387	GENDLAL BHOJRAJ MACHADE	8	17	9	10	44
19	291298	HARSHATA GUNDERAO WARKHEDE	16	7	8	9	40
20	291388	HRITIK H. HIRANWAR	4	1	7	7	19
21	291306	KALYANI PRAVIN FARTADE	13	2	7	7	29
22	291389	KARTIK NARENDRA MIRE	2	4	9	9	24
23	291309	KHINESHWARI PUSHPTODE	13	6	9	9	37

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- VI Examination

Subject: Physics

Paper-II (Electronics, Fiber Optics, Communication And Digital Electronics)

Time: Three Hours] **[Maximum Marks:50**

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) What do you understand by transistor oscillator? Draw the circuit diagram and explain the working of Colpitt's oscillator. Write the expression for frequency of oscillation. 5

(B)(i) Draw the circuit diagram of a transistor RC phase shift oscillator and explain its working. 3

(ii) In a phase shift oscillator R1 = R2 = R3= 500 kΩ and C1 = C2 = C3= 100 pF. Find the operating freq. 2

OR

(C) Explain classification of amplifiers on the basis of position of operating point. 2½

(D) Explain the working of OP-Amp as a differentiator. 2½

(E) What are the different parameters of OP-Amp ? Explain. 2½

(F) An operational amplifier is used as an inverting amplifier. It is required that the closed loop gain of the inverting amplifier should be –50. Evaluate the values of the resistor, R2 required in the circuit if R1= 20 kΩ. 2½

EITHER

2.(A) What is optical fibre ? Explain function of core and cladding of the fibre. Explain how light propagated through optical fibre. 5

(B)(i) Define Numerical Aperture. Derive an expression for Numerical Aperture. 3

(ii) Calculate the refractive indices of the core and cladding material of a Fibre from the following data : N.A. = 0.22, Δ = 0.012. 2

OR

(C) Define Acceptance Angle. Obtain an expression for it. 2½

(D) For an optical fibre, the refractive index difference is 2%. Calculate the numerical aperture and the critical angle if n_1 = 1.58. 2½

(E) State different types of optical fibre based on refractive index profile. Explain Graded index fibre. 2½

(F) What are the advantages of optical fibre communication over other modes of communication ? 2½

EITHER

3.(A) What are the different types of Modulation ? Give the analysis of frequency modulation and give the frequency spectrum of FM waves. 5

(B)(i) Derive an expression for power in AM wave. 3

(ii) A carrier wave of frequency 670 kHz and peak value 10 V is amplitude modulated by 5 kHz signal. The maximum change in amplitude is 5V; determine the modulation index and range of side frequencies. 2

OR

(C) Compare the amplitude modulation with frequency modulation. 2½

(D) Discuss the frequency spectrum of A.M.wave. 2½

(E) Define the term modulation index and deviation ratio. 2½

(F) A bandwidth of 15 MHz is available for AM transmission. If the maximum audio signal frequency used for modulating the carrier is not be exceed 15 kHz, how many stations can broadcast within this band simultaneously without interfering with each other ? 2½

EITHER

4.(A) Explain working of full subtractor with logic diagram. Draw its Truth Table and write expression for borrow and difference. 5

(B)(i) Explain method of conversion of decimal number into equivalent binary number. Convert decimal number (15.625) into binary number. 3

(ii) Convert octal number (15.21) into its binary equivalent. 2

OR

(C) Explain with suitable logic diagram, how NOR gates only can be used to construct AND, OR, NOT and NAND gate. 2½

(D) What is Hexadecimal number system ? Convert $(9F2.1A)_{16}$ into binary equivalent. 2½

(E) State and prove De Morgan's theorems. 2½

(F) Reduce the expression $Y = A\bar{B}CD + ABCD$ and draw logic diagram for reduced equation. 2½

5. Attempt any **TEN** questions

(i) State any two characteristics of ideal OP Amp.

(ii) Give the Pin diagram of IC741.

(iii) Define Slew rate.

(iv) Compute the acceptance angle of an optical fibre from the following data n1(core) = 1.55 and n2 = (cladding) = 1.50.

(v) Define Acceptance Cone.

(vi) Define bandwidth length product.

(vii) State any two drawback of amplitude modulation.

(viii) Define Phase Modulation.

(ix) A modulated carrier wave has maximum and minimum amplitudes of 750 mV and 250 mV, calculate the value of % modulation.

(x) Draw logic diagram of X-NOR gate and its symbol.

(xi) Define nibble and Byte of a data.

(xii) If $(111.11)_2 = (X)_{16}$ find X 1x10

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

Bachelor of Science (B.Sc.) SEM- VI Examination

Subject: Physics

Paper-I (Relativity, Nuclear Physics and Bio Physics)

Time: Three Hours] **[Maximum Marks:**50

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

EITHER

1.(A) Derive the equation $E = mc^2$ from Special theory of relativity. 5

(B)(i) Obtain Lorentz transformation equations for space and time coordinates. 3

(ii) An electron is moving with a velocity 0.8C. Calculate its kinetic energy, assuming the rest mass of electron = 9.1×10^{-31}Kg. 2

OR

(C) What is time dilation? 'A clock in motion ticks slower than a stationary clock', explain. 2½

(D) Derive the laws of relativistic addition of velocities. 2½

(E) Obtain the equation for variation of mass with velocity ($V \approx C$) 2½

(F) Two spaceships A and B are moving in opposite directions, each with a speed of 0.90C. Find the relative speed of B with respect to A. 2½

EITHER

2.(A) What are the different elementary particles? How are they classified? Also Explain their Characteristics. 5

(B)(i) Explain the working of G.M. counter. Define dead time and recovery time. 3

(ii) Calculate the Binding Energy of an α-particle from the following data, Mass of He nucleus = 4.002870 amu, Mass of Proton = 1.007825 amu, Mass of Neutron = 1.008665 amu, 1 amu = 14.92×10^{-11}J = 931.48 Mev 2

OR

(C) What is nuclear fission? Explain with an example. 2½

(D) If the frequency of the oscillator connected to the dees' of a cyclotron is 9 MHz, what should be the magnetic flux density B required to accelerate α-particles? [Given : mass of α-particle = 6.64×10^{-27}kg and its charge = 3.2×10^{-19} C] 2½

(E) Explain the working of a Linear accelerator. 2½

(F) What is Q-value of nuclear reaction? Explain exoergic and endoergic nuclear reaction. 2½

EITHER

3.(A) What is α-particle tunneling? Explain Gamow's theory of α-decay and derive the expression for transmission probability P_T. 5

(B)(i) What is β-decay? Explain each mode with suitable example through which β-decay occurs. 3

(ii) Calculate the energy released if two deuterium nuclei fuse into an α-particle. Given: M_D=2.014102 amu, M_{He} = 4.002603 amu. 2

OR

(C) Discuss Pauli's neutrino hypothesis. 2½

(D) Find the energy of gamma ray photon in MeV if its wavelength is 0.03 Å. Given : $h = 6.63 \times 10^{-34}$ J-s, $C = 3 \times 10^{8}$ m/s. 2½

(E) State and explain Geiger-Nuttal law. 2½

(F) Explain the experimental determination of range of α-particle. 2½

EITHER

4.(A) Explain principle and working of electrocardiogram with the help of neat block diagram. 5

(B)(i) Explain the construction and working of Calorimeter. 3

(ii) The molar extinction coefficient of a substance is 16000. When light is passed through the cell containing the substance of 2 cm thickness if 75% of light is absorbed, find concentration of the solution. 2

OR

(C) If the radial distance of the particle from the axis of rotation is 150 mm and the rpm speed of the rotor is 2500, find the relative centrifugal force. 2½

(D) What are the different brain waves? Explain the function of each block of EEG recording. 2½

(E) What is spectrophotometer? Explain the working of single beam spectrophotometer. 2½

(F) What is the principle of sonography? Give its Uses. 2½

5. Attempt any **TEN** questions

(i) State the postulates of special theory of relativity.

(ii) Define inertial and non-inertial frame of reference.

(iii) What would be the speed of a particle so that its mass is double of its rest mass?

(iv) State the name of any two instruments which are used to detect nuclear radiation.

(v) What are the magic numbers?

(vi) What is chain reaction?

(vii) State the two properties of α-rays.

(viii) Define end point energy of β-rays.

(ix) State any two properties of neutrinos.

(x) If the transmittance is 0.2, then find the absorbance.

(xi) State Lambert-Beer's law.

(xii) What is Electroretinogram (ERG)? 1x10

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-7,8,9,10

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1	ADITYA MISHRA						
2	AMAN VINOD TRIPATHI	9372188228	amantripathi2409@gmail.com		Aman		
3	ANANYA RAVINDRA MOTGHARE	7219218955	ananyamotghare1802@gmail.com	ananya	ananya		
4	APURVA SHALIGRAM VERULKAR						
5	ASHMIT VILAS JUWAR						
6	ATHARVA VINODRAO INGOLE						
7	AYAZ MABUD SHEIKH						
8	BHUMIKA VILAS THAKRE						

9	DHAMMAPRITI RAJENDRA LALE						
10	DINESH INDRAJEET PARTETI	9623389676	partetidinesh51@gmail.com				
11	DIVYA KAILASH HANOTE	8605422401	divyahanote0406@gmail.com				
12	GAURAV PRAMOD LANDGE						
13	JASRAJ DEVILAL PALIWAL	9370820325	jasrajpaliwal7@gmail.com				
14	KAJAL PURUSHOTTAM NIGHOT	9375252506 29	kajunighot2000@gmail.com				
15	KAJAL TILAKDHARI PRASAD	7410763138	prasad.kajal2004@gamail.com.				
16	KARTIK MANGESH SHELOTKAR						
17	KAVITA SUNIL MISHRA						
18	KHUSHI NARENDRA SURYAWANSHI						
19	MANSI ASHOK BADOLE						
20	MANSI SHAM FATING	8767154686	mansifating2110@gmail.com				
21	MAYUR DHANRAJ GHODAM						

22	MITHILESH KUMAR ANIL PRASAD						
23	NIDHI KISHOR MISAR						
24	PRACHIT RAJESH KOTPALLIWAR						
25	PRADUMNA AKSHAYBAR SINGH						
26	PRATIK GAHUKAR	7796280021	Pranaygahukar92@gmail.com		Pgahukar		
27	PRERNA SHAILENDRA PATIL						
28	RITIK MANOJ VARMA						
29	RIYA VIJAY PANDIT						
30	ROHIT SURDAS WANJARI						
31	RUCHIKA NARENDRA PATLE						
32	RUSHALI DILIP BHOSKAR	9579485597	rushalibhoskar@gmail.com		Rushali		
33	RUTIK VIJAY GAJBHIYE						
34	SAKSHI MOHAN INGLE						
35	SATYAM SATYADEV MISHRA						

36	SEJAL RAJIV LAKHANPAL	9028851568	sejallakhanpal@gmail.com				
37	SHASHANK GYANENDRA PANDEY	9998644684	pandeyshashank952@gmail.com				
38	SHITAL RAMAJI KELZARKAR						
39	SHREYASH BHOJRAJ CHATTE						
40	SHRUTI NIRANJAN RAMTEKE						
41	SHUBHAM SINGH	9370244760	singhshubham@gmail.com				
42	SWANANDI NARAYANRAO DHARNE						
43	TEJASWINI KRISHNAJI THAKARE						
44	TUSHAR YAMRAJ ATKARI						
45	VAISHU SAHADEO NIMJE						
46	VATAN SANTOSH SONWANE						
47	WASUDEO KISAN LAKHMAPURE						
48	YASH RAJESH BORKAR						
49	Komal S. Patle	9881148506	komalpatle234@gmail.com				

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad

IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

Principal

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-V|

T-5

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	ADITI ALESHWAR LUTE	7820812303	aditilute191@gmail.com	Aditi	Aditi		
2.	ADITYAKUMAR SHYAMALKUMAR SHUKLA	9518994638	adityashukla0025@gmail.com	Shukla	Shukla		
3.	ADITYAKUMAR SURYBANSH SINGH	7350543901	adityaSingh28980@gmail.com	A.K.S	A.K.S		
4.	AKSHAY PREMDAS KHANDARE	7350956809	Akshay Khandare 79@gmail.com	Akshay			
5.	ANKUR SANJEEV KHURPADI	7249884620	Khurpadi ankur@gmail.com	Ankur	Ankur		
6.	ANUJ HARIPRASAD MISHRA Paper not Submited	8103656208	anujmishra@gmail.com	Anuj	Anuj Mi		
7.	AYUSH RAJENDRA BORIKAR	9579445092	ayushborikar45@gmail.com		Ayush.		
8.	BHAGYASHREE SANJAY THAKARE	8766925275	thakrebhagyashree2003@gmail.com	Thakare	Thakare		

9.	DAMINI BALRAM KATRE	8208255685	damini katre 31@gmail.com	Damini	Damini		
10.	HITESH GANESH KAWARE	7058427112	hiteshkaware73@gmail.com	Hkawar	Hkawar		
11.	HRITIK CHANDRAMA MISHRA	9067445755	Kumari anurodha mishra 1010@gmail.com	Hmis	Hmis		
12.	KHUSHBU GANESH WALMIK	8483700782	Khushboowalmik14@gmail.com	Kwalmik	Kwalmik		
~~13.~~	~~KHUSHBU GANESH WALMIK~~						
14.	KUNAL SANJAY DIGRASE	8010274303	kunaldigrase777@gmail.com	Kunal			
15.	NITIN AJAY KUSHWAHA	9693429005	nitinkushwaha706@gmail.com	Nkush	Nkush		
16.	NUTAN PALASRAM SURJUSE						
17.	OMKUMAR DEVLAL DEVANGAN	9763624588	ommamaji12@gmail.com				
18.	PRITESH SURENDRA NARTAM	7498039428	pajunartam12345@gmail.com	Pnartam	Pnartam		
19.	RITUL KRISHNA BISEN	7028810840	ritulbisen06@gmail.com	Rbisen	Rbisen		
20.	SANCHITA SUNIL PATIL	7218079074	sanchitapatil2007@gmail.com	Spatil	Spatil		
21.	SHWETA RANGRAO BEDWAL	8080440194	Shwetabedwal2605@gmail.com	Shweta	Shweta		
22.	YAMINI ACHAL MISHRA	8623040668	yaminimishra92259@gmail.com	Ymishra	Ymishra		

23.	YASH RAMESHWAR JAISWAL						
24.							
25.							

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad

IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe

Principal

PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF PHYSICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-3

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	AASMIN ABDULKHALIK SHEIKH	8668323381	aasmin5029@gmail.com	ASheikh	ASheikh		
2.	**CHETAN UMASHANKAR BOPCHE**	9172484628	Chetanbopche27@gmail.com	C.	C.		
3.	JANVI ASHOK KOSARKAR						
4.	PAWANKUMAR SHIVKUMAR VISHWAKARMA	7058408869	Pawanvishwaka67@gmail.com		Pawan		
5.	PRAJWAL MULCHAND BHADE	9834016826	prajwalbhad97868@g				
6.	PRAKHAR RAJESH BURADKAR						
7.	PRIYANKA SHILANATH SHAH	9385197365	PS3247311@gmail.com	Priyanka	Priyanka		

8.	Minal. V. Mahalle	9921941320	minalmahalle75@gmail	M. Mahalle	M Mahalle		

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

HEAD
DEPARTMENT OF PHYSICS
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Nitin Gaikwad

IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Dr. Akhilesh Peshwe

Principal
PRINCIPAL
Dharampeth M. P. Deo Memorial
Science College, Nagpur.

RTM NAGPUR UNIVERSITY PRACTICAL EXAMINATION SUMMER - 2024

BSc III Sem VI							DEPARTMENT OF PHYSICS			
Sr No	Roll No	Name of students	T1	T2	IA-1	IA-2	TOTAL	PRACT	TOTAL	RESULT
1	305996	AASMIN ABDULKHALIK SHEIKH	31	38	10	10	89	30	119	pass H1
2	305997	ADITI ALESHWAR LUTE	16	27	10	10	63	29	92	pass
3	306000	ANANYA RAVINDRA MOTGHARE	14	18	10	10	52	29	81	pass
4	306004	APURVA SHALIGRAM VERULKAR	19	25	7	8	59	28	87	pass
5	306008	BHAGYASHREE SANJAY THAKARE	31	47	10	10	67	30	97	pass
6	306009	BHUMIKA VILAS THAKRE	18	16	7	7	48	29	77	fail
7	306011	DAMINI BALRAM KATRE	25	20	10	9	64	30	94	pass
8	306013	DHAMMAPRITI RAJENDRA LALE	7	7	7	7	28	29	57	fail
9	306015	DIVYA KAILASH HANOTE	16	12	10	10	48	29	77	fail
10	306021	JANVI ASHOK KOSARKAR	23	18	7	7	55	27	82	pass
11	306024	KAJAL PURUSHOTTAM NIGHOT	27	25	10	10	72	29	101	pass
12	306025	KAJAL TILAKDHARI PRASAD	22	19	10	1	61	29	90	pass
13	306028	KAVITA SUNIL MISHRA	24	18	7	7	56	28	84	pass
14	306030	KHUSHBU GANESH WALMIK	21	22	10	10	63	29	92	pass
15	306033	KHUSHI NARENDRA SURYAWANSHI	17	14	9	9	49	30	79	pass
16	30603	KOMAL	8	7	1	1	45	28	73	fail

	4	SURENDRA PATLE			0	0				
17	306035	MANSI ASHOK BADOLE	14	9	7	7	37	30	67	fail
18	306039	MANSI SHAM FATING	12	7	10	10	39	28	67	fail
19	306040	MINAL UMESHRAO MAHALLE	20	11	10	10	51	28	79	pass
20	306043	NIDHI KISHOR MISAR	8	17	7	7	39	28	67	fail
21	306046	NUTAN PALASRAM SURJUSE	24	32	7	7	70	30	100	pass
22	306052	PRERNA SHAILENDRA PATIL	17	18	7	7	49	30	79	pass
23	306055	RITUL KRISHNA BISEN	19	14	10	10	53	30	83	pass
24	306057	RUCHIKA NARENDRA PATLE	10	6	7	7	30	29	59	fail
25	306058	RUSHALI DILIP BHOSKAR	27	28	10	10	75	28	103	pass
26	306060	SAKSHI MOHAN INGLE	11	13	7	7	38	27	65	fail
27	306064	SANCHITA SUNIL PATIL	27	28	10	10	75	28	103	pass
28	306066	SEJAL RAJIV LAKHANPAL	35	29	10	10	84	30	114	pass H2
29	306069	SHITAL RAMAJI KELZARKAR	18	16	7	7	48	28	76	pass
30	306071	SHRADDHA BHARAT RAJE	25	0	7	7	39	27	66	fail
31	306077	SHRUTI NIRANJAN RAMTEKE	16	6	7	7	36	28	64	fail
32	306079	SHWETA RANGRAO BEDWAL	16	12	10	10	48	30	78	pass
33	306081	SIMRAN GAJANAN TALMALE	22	7	7	7	43	28	71	fail
34	306088	SWANANDI NARAYANRAO DHARNE	27	3	7	7	44	28	72	fail
35	30609	TEJASWINI	13	0	7	7	27	27	54	fail

	1	KRISHNAI THAKARE								
36	306105	VAISHU SAHADED NIMIE	1	0	7	7	15	30	45	fail
37	306109	VRUSHALI KHUMDEO SHAHARE	33	12	7	7	59	29	88	pass
38	306110	YAMINI ACHAL MISHRA	15	5	10	9	49	29	68	fail
39	306114	ADITYA AJIT MISHRA	31	17	9	10	67	30	97	pass
40	306118	ADITYAKUMAR SHUKLA	33	14	10	10	67	28	95	pass
41	306120	AKSHAY P KHANDARE	0	0	9	7	16	27	43	fail
42	306123	AMAN VINOD TRIPATHI	30	25	10	10	75	28	103	pass
43	306125	ANKUR SANJEEV KHURPADI	29	20	10	9	68	28	96	pass
44	306127	ANUJ HARIPRASAD MISHRA	19	21	10	10	61	27	88	pass
45	306129	ASHMIT VILAS JUWAR	15	10	7	7	39	29	68	fail
46	306130	ATHARAV P UMATE	AA	AA	7	7	14	28	42	fail
47	306131	ATHARVA VINODRAO INGOLE	17	8	7	7	39	28	67	fail
48	306133	AYAZ MABUD SHEIKH	5	2	7	7	21	27	48	fail
49	306135	AYUSH RAJENDRA BORIKAR	4	AA	9	10	23	29	52	fail
50	306132	CHETAN U BOPCHE	7	9	10	9	35	29	64	fail
51	306141	DINESH INDRAJEET PARTETI	9	13	10	10	42	27	69	fail
52	306144	GAURAV PRAMOD LANDGE	4	7	7	7	25	27	52	fail
53	30614	HITESH	5	9	9	9	32	30	62	fail

	7	GANESH KAWARE								
54	306148	HRITIK CHANDRAMA MISHRA	10	13	9	10	42	29	71	fail
55	306149	JASRAJ DEVILAL PALIWAL	25	25	10	10	70	29	99	pass
56	306151	KARTIK M SHELOTKAR	1	4	7	7	19	27	46	fail
57	306153	KUNAL SANJAY DIGRASE	17	9	9	9	44	29	73	fail
58	306154	MAYUR DHANRAJ GHODAM	9	AA	7	7	23	AA	23	fail
59	306155	MITHILESH PRASAD	17	0	7	7	31	27	58	fail
60	306159	NITIN AJAY KUSHWAHA	31	29	10	10	80	29	109	pass H3
61	306160	OMKUMAR D DEVANGAN	28	29	10	10	77	29	106	pass
62	306161	PAWANKUMAR S VISHWAKARMA	10	6	10	10	36	27	63	fail
64	306162	PRACHIT KOTPALLIWAR	33	9	8	8	58	30	88	pass
65	306163	PRADUMNA A SINGH	0	AA	7	7	14	27	41	fail
66	306164	PRAJWAL MULCHAND BHADE	0	0	10	10	20	26	46	fail
67	306166	PRAKHAR R BURADKAR	14	6	7	7	34	26	60	fail
68	306168	PRATIK PRADEEP GAHUKAR	19	14	10	10	53	28	81	pass
69	306169	PRITESH SURENDRA NARTAM	24	5	10	10	49	25	75	pass
70	306172	RITIK MANOJ VARMA	10	0	7	7	24	27	51	fail
71	306175	ROHIT SURDAS WANJARI	1	0	7	7	15	26	41	fail
72	30617	RUTIK	22	9	7	7	45	28	73	fail

	8	VIJAY GAJBHIVE								
73	306184	SATYAM SATYADEV MISHRA	7	0	7	7	21	26	47	fail
74	306187	SHASHANK G PANDEY	12	4	10	10	36	27	63	fail
75	306188	SHREYASH BHOJRAJ CHATTE	14	6	7	7	34	26	60	fail
76	306190	SHUBHAM DHIRENDRA SINGH	7	4	10	10	31	27	58	fail
77	306198	VATAN SANTOSH SONWANE	10	AA	7	7	24	26	50	fail
78	306200	WASUDEO K LAKHMAPURE	AA	AA	7	7	14	AA	14	fail
79	306201	YASH RAJESH BORKAR	12	3	7	7	29	28	57	fail
80	306202	YASH RAMESHWAR JAISWAL	3	AA	7	7	17	AA	17	fail
81	306173	RIYA VIJAY PANDIT	3	12	7	7	29	27	56	fail
82	306053	PRIYANKA SHILANATH SHAH	6	10	9	10	35	26	61	fail
83	306119	ADITYAKUMAR S SINGH	7	0	10	10	27	27	54	fail

PASS	34
FAIL	49
PERCENTAGE	41 %
TOTAL STUDENTS	83

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

End Semester Examination

Bachelor of Science (B.Sc.) SEM- II Examination

Microbiology

Microbial Diversity

Paper-I

Time: Three Hours] **[Maximum Marks:**50]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

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1. Describe the general characteristics of Proteobacteria. 10 M

OR

Describe the general characters of Mycoplasma. 10M

2. Describe the general characteristics of fungi 10M

OR

Describe the general characteristics of Algae 10M

3. (a)Write a note on LHT classification of Viruses. 5M
   (b) Write a note on helical symmetry of Viruses. 5M

OR

   (c) Describe lytic cycle of Virulent Phage in short? 5M
   (d) Write a note on life cycle of lambda phage. 5M

4. (a) Write a note on Bioluminiscence. 2.5M
   (b)Discuss the Microbial Interaction in rumen 2.5 M
   (c) Write a note on Insect Midgut Bacteria. 2.5M
   (d) Write a note on Mycorrhiza? 2.5M

OR

   (e) What is Positive Microbial Interaction? 2.5 M
   (f) Describe mutualism with examples. 2.5 M
   (g) Write a note on Symbiosis? 2.5M
   (h) What is Lichen? 2.5 M

5. **Answer any ten questions:**
   (a) Define commensalism. 1M
   (b) What is VAM ? 1M
   (c)Name any two antibiotics produced by Streptomyces? 1M
   (d) What are Heterocysts ? 1M
   (e) What is trophozoites? 1M
   (f) Name any two dimporphic fungi ? 1M
   (g) What is Virion? 1M
   (h) What is Eclips period? 1M
   (i) What is Burst size? 1M
   (j) What is Latent period? 1M
   (k) What is Symbiosis? 1M
   (l) What cytopathic effect? 1M

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

End Semester Examination

Bachelor of Science (B.Sc.) SEM- II Examination

Microbiology

Food Microbiology and Milk Microbiology

Paper-II

Time: Three Hours] **[Maximum Marks:**50]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q1. Describe the spoilage of meat and meat products under aerobic and anaerobic condition. 10M

Or

a) Classify foods based on the ease of spoilage. 5M
b) Give the causal organism and symptoms of neck rot, ring rot, scab, grey rot, soft rot. 5M

Q2. Give the principles of food preservation and explain its various methods. 10M

Or

a) Write a note on slow freezing and quick freezing. 5M
b) Describe canning in detail. 5M

Q3.

a) Which steps are involved in manufacture of cheddar cheese? 2½M
b) Write a note on HTST. 2½M
c) Describe spoilage of milk and milk products. 2½M
d) Write a note on MBRT. 2½M

Or

e) What is cottage cheese? How it is made? 2½M
f) Write a note on low temperature holding method. 2½M
g) Write a note on phosphatase test. 2½M
h) Give a flow chart for production of shrikhand. 2½M

Q4.

a) Discuss food infection and food intoxication. 2½M
b) What is botulism? Describe it. 2½M
c) Give an account on objectives and responsibilities of FDA. 2½M
d) Write seven principles of HACCP system. 2½M

Or

e) Discuss Salmonellosis in detail. 2½M
f) What is BIS? Give its responsibilities. 2½M
g) Give a note on aflatoxin. 2½M
h) Discuss staphylococcal food intoxication. 2½M

Q5. Solve any ten. (each carry 1M)

a) What is TA spoilage?
b) Classify canned foods on the basis of acidity.
c) What is thawing?
d) What is developed preservatives?
e) What is cheddaring? Name the most common bacteria used as starter in cheddar cheese making.
f) Give the composition of milk.
g) What is GRAS?
h) What is TDP and TDT?
i) What is EEC infection?
j) What is the microbial load? Enlist the sources of microorganisms in food.
k) What are mycotoxins? Give examples.
l) Enlist objectives of FSSAI.

Q5. Solve any ten. (each carry 1M)

a) What is TA spoilage?
b) Classify canned foods on the basis of acidity.
c) What is thawing?
d) What is developed preservatives?
e) What is cheddaring? Name the most common bacteria used as starter in cheddar cheese making.
f) Give the eomposition of milk.
g) What is GRAS?
h) What is TDP and TDT?
i) What is EEC infection?
j) What is the microbial load? Enlist the sources of microorganisms in food.
k) What are mycotoxins? Give examples.
l) Enlist objectives of FSSAI.

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

End Semester Examination

Bachelor of Science (B.Sc.) SEM- II Examination

Microbiology

Food Microbiology and Milk Microbiology

Paper-II

Time: Three Hours] **[Maximum Marks:**50]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Q1. Describe the spoilage of meat and meat products under aerobic and anaerobic condition. 10M

Or

a) Classify foods based on the ease of spoilage. 5M
b) Give the causal organism and symptoms of neck rot, ring rot, scab, grey rot, soft rot. 5M

Q2. Give the principles of food preservation and explain its various methods. 10M

Or

a) Write a note on slow freezing and quick freezing. 5M
b) Describe canning in detail. 5M

Q3.

a) Which steps are involved in manufacture of cheddar cheese? 2½M
b) Write a note on HTST. 2½M
c) Describe spoilage of milk and milk products. 2½M
d) Write a note on MBRT. 2½M

Or

e) What is cottage cheese? How it is made? 2½M
f) Write a note on low temperature holding method. 2½M
g) Write a note on phosphatase test. 2½M
h) Give a flow chart for production of shrikhand. 2½M

Q4.

a) Discuss food infection and food intoxication. 2½M
b) What is botulism? Describe it. 2½M
c) Give an account on objectives and responsibilities of FDA. 2½M
d) Write seven principles of HACCP system. 2½M

Or

e) Discuss Salmonellosis in detail. 2½M
f) What is BIS? Give its responsibilities. 2½M
g) Give a note on aflatoxin. 2½M
h) Discuss staphylococcal food intoxication. 2½M

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-13

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	Ayushi Prakash Chaudhary	7756017460	ayushichaudhari@gmail.com	Chaudhary	Chaudhary		
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22.							
23.							
24.							
25.							
26.							
27.							

28.							
29.							
30.							

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Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Head
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Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Nitin Gaikwad

IQAC Coordinator
IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Dr. Akhilesh Peshwe

Principal
Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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1.	Aishwarya Satish Thakre	7722092408	aishwaryathakre64@gmail.com	Athakre	Athakre		
2.	Aniket Vijay Valukar	ABSENT					
3.	Anushka Ashok Bhimgade	ABSENT					
4.	Ashwin Shivprasad Kashyap	ABSENT					
5.	Atharva Aniruddha Astikar	ABSENT					
6.	Dipty Anil Zoting	ABSENT					
7.	Divya Dumdeo Mankar	ABSENT					
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11.	Jayashri Jaykishor Pandit	7709946752	jayashripandit@gmail.com	Pandit	Pandit		

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15.	Manalee Manohar Sirsat	8975246115	manalee@sirsat@gmail.com				
16.	Mayur Sonu Thakur	ABSENT					
17.	Mohd. Azhar Sheikh	ABSENT					
18.	Nirali Vilas Budhe	9209020324	nirali budhe@gmail.com				
19.	Nisha Dhansingh Bavankar	ABSENT					
20.	Nisha Sohanlal Patle	ABSENT					
21.	Nupur Umesh Selokar	ABSENT					
22.	Pallavi Surajlal Bijewar	ABSENT					
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26.	Priyanka Budharam Kamble	ABSENT					
27.	Priyanka Singh	ABSENT					
28.	Rashmi Anilingole	9975197565	rashmiingole23@gmail.com				

29.	Rohit Arun Lanjewar	9067218946	grohitlanjewar1356@gmail.com				
30.	Ruchika Shailesh Undersayare	ABSENT					
31.	Saket Sanjiv Bansod	ABSENT					
32	Sakshi Dnyaneshwar Pardhi	9370213199	sakshipardhi122@gmail.com				
33.	Sapana Prabhashankar Bhagat	7219069387	bhagatsapna676@gmail.com				
34.	Shrushti Khushalji Naik	ABSENT					
35.	Shruti Vijay Shendre	ABSENT					
36.	Siddhi Anand Kitkaru	7666078915	siddhikitkaru@gmail.com				
37.	Sparshika Rajendra Hadke	ABSENT					
38.	Trisha Dhaniram Jamaiwar	ABSENT					
39.	Umesh D Raut	ABSENT					
40.	Yogini Sanjayrao Dhole	7058825541	yoginidhole79@gmail.com				

Pimple

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Head
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Dr. Nitin Gaikwad

IQAC Coordinator

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Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

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Principal

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Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF MICROBIOLOGY

END SEMESTER EXAMINATION

2023-24

Marks Sheet

B. Sc. Semester II

Sr.No.	Name of the Students	Marks Obtained out of 50	
		Paper 1 Microbial Diversity	Paper II Basic Techniques in Microbiology
1.	Ayushi Prakash Chaudhary	25/50	28/50
2.	Bhavesh Suresh Urade	21/50	23/50
3.	Dipanshu Deepak Golait	ABSENT	
4.	Divya Homchand Sahare	19/50	24/50
5.	Divyansh Asok Raut	23/50	21/50
6.	Harsh Ganesh Kale	28/50	19/50
7.	Karuna Kewalramni Mehndole	29/50	25/50
8.	Najia Sheikhnoor Sattar Bairam	21/50	12/50
9.	Pallavi Yogiraj Khawashi	20/50	25/50
10.	Pooja Manik Mashakhetri	28/50	24/50
11.	Prachi Ravindra Gudadhe	29/50	23/50
12.	Pragya Alok Rai	ABSENT	

13.	Rasika Mahipal Bandhate	26/50	17/50
14.	Sakshi Rajesh Singh	23/50	18/50
15.	Shivani Vijay Wakulkar	28/50	29/5
16.	Shriya Pradip Gahukar	24/50	26/50
17.	Shruti Vijay Singh	23/50	24/50
18.	Sonal Ambadas Pardhi	24/50	27/50
19.	Sujal Digambar Motghare	25/50	28/50
20.	Vipula Raju Nadekar	24/50	24/50
21.	Aishwarya Satish Thakre	23/50	25/50
22.	Aniket Vijay Valukar	ABSENT	
23.	Anushka Ashok Bhimgade	ABSENT	
24.	Ashwin Shivprasad Kashyap	ABSENT	
25.	Atharva Aniruddha Astikar	ABSENT	
26.	Dipty Anil Zoting	ABSENT	
27.	Divya Dumdeo Mankar	ABSENT	
28.	Gaurav Dharmraj Gharjale	ABSENT	
29.	Isha Devidas Rewatkar	24/50	25/50
30.	Jayant Ravindra Rohankar	ABSENT	
31.	Jayashri Jaykishor Pandit	23/50	24/50
32.	Jyoti Jayprakash Singh	ABSENT	
33.	Kanak Harendra Vijaywar	24/50	23/50
34.	Kashish Kanthiram Chatur	23/50	24/50
35.	Manalee Manohar Sirsat	24/50	26/50

36.	Mayur Sonu Thakur	ABSENT	
37.	Mohd. Azhar Sheikh	ABSENT	
38.	Nirali Vilas Budhe	25/50	24/50
39.	Nisha Dhansingh Bavankar	ABSENT	
40.	Nisha Sohanlal Patle	ABSENT	
41.	Nupur Umesh Selokar	ABSENT	
42.	Pallavi Surajlal Bijewar	ABSENT	
43.	Payal Pramod Sontakke	26/50	24/50
44.	Prajwal Devendra Hatwar	27/50	28/50
45.	Pranali Yadorao Rahangdale	24/50	25/50
46.	Priyanka Budharam Kamble	ABSENT	
47.	Priyanka Singh	ABSENT	
48.	Rashmi Anilingole	25/50	25/50
49.	Rohit Arun Lanjewar	25/50	25/50
50.	Ruchika Shailesh Undersayare	ABSENT	
51.	Saket Sanjiv Bansod	ABSENT	
52.	Sakshi Dnyaneshwar Pardhi	25/50	24/25
53.	Sapana Prabhashankar Bhagat	25/50	25/50
54.	Shrushti Khushalji Naik	ABSENT	
55.	Shruti Vijay Shendre	ABSENT	
56.	Siddhi Anand Kitkaru	25/50	25/50
57.	Sparshika Rajendra Hadke	ABSENT	
58.	Trisha Dhaniram Jamaiwar	ABSENT	

59.	Umesh D Raut	ABSENT	
60.	Yogini Sanjayrao Dhole	25/50	25/50

Dr.Vaishali Pimple

Name & Signature of Teacher In-Charge

Name & Signature of Head of the Department

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

RTM Nagpur University Summer Examination 2023

Bachelor of Science (B.Sc.) SEM- IV Examination

Microbiology

Time: Three Hours] Paper-II [Max.Marks : 50

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Que.1 Describe MTFT for determination of coliforms.

OR

Explain various methods of chlorination in water treatment process. 10

Que.2 a) Describe chemical characterization of sewage.

b) Explain principle and working of RBC.

OR

i) Describe sludge digester.

ii) Describe principle and working of Imhoff tank in waste water treatment. 5*2=10

Que.3 a) Discuss microbial analysis of air using Anderson air sampeler .

b) Explain mechanism of nitrogenase enzyme.

OR

Give an account of:

i)Mycorrhiza

ii)Bacteria and fungi as biopesticide. 5*2=10

Que 4.a) Explain bioaugmentation with suitable examples.

b)Describe recalcitrant compounds .

OR

i)Explain bioleaching of copper.

ii)Describ bioaccumulation with suitable examples. 5*2=10

Que5.Solve any ten questions: :

(a) Define Break Point Chlorination.

(b) What is "Ripening of the filter."

(c) What is "False presumptive test"?

(d) What is ThOD ?

(e) Define 'Activated Sludge.'

(f) Give composition of sewage.

(g) Give any two examples of biofertilizers.

(h)Define nitrogen fixation?

(i) What are the limitations of settling plate technique ?

(j) What is bioremidiation ?

(k) Define biomagnification

.(l) Give two examples of microbes involved in microbial leaching of copper

1*10=10

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College,Nagpur

End Semester Examination (Summer-2023-24)

Bachelor of Science (B.Sc.) SEM- IV Examination

Microbiology

Metabolism

Paper-I

Time: Three Hours] **[Maximum Marks:50]**

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

Qu.1. Describe the tricarboxylic acid (TCA) cycle, including its intermediates and the reactions involved. 10 M

OR

Explain the Embden-Meyerhof-Parnas (EMP) pathway, highlighting its key steps and intermediates. 10M

Qu.2. Discuss the general features with process of DNA replication and the role of DNA polymerase, primase, helicase, and ligase. 10 M

OR

Explain the process of transcription in prokaryotes, including the general features and the role of RNA polymerase. 10 M

Qu.3.a) Describe the process of translation in prokaryotes, including initiation, elongation, and termination. 5 M

b) "Genetic Code is triplet." Justify. 5 M

OR

c) Describe the process of amino acid breakdown, including deamination, focusing on the removal of amino groups from amino acids. 5M

d) Explain Wobble hypothesis. 5M

Qu. 4. a) Define high energy molecules and explain their role in cellular energy metabolism. 2½M

b) Describe Cyclic Phosphorylation. 2½M

c) Explain the process of non-cyclic phosphorylation. 2½M

d) Discuss in detail the process oxidative phosphorylation. 2½M

OR

e) Explain energy flow through cyclic and non-cyclic phosphorylation. 2½M

f) Explain eukaryotic electron transport chain. 2½M

g) Discuss substrate level phosphorylation. 2½M

h) Write a note on Cytochrome. 2½M

Qu. 5. Solve any ten (each carry one mark) 10M

i) What are amphibolic pathways?

ii) Name any one inhibitor of pyruvate kinase.

iii) What is the role of peptidyl transferase?

iv) What are nonsense codon?

v) What is meant by proof reading?

vi) Name scientist who discovered ED pathway.

vii) What are Okazaki fragments?

viii) Give the function of DNA Ligase.

ix) What is ketogenic amino acid?

x) Write the reduced form of NAD and FAD.

xi) Define transamination.

xii) What is Omega oxidation.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-III

S-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	Test-1	Test-2	Test-3	Test-4	Assignment or any other activity	Remarks if any
				Paper-I Unit-I & II	Paper-I Unit-III & IV	Paper-II Unit-I & II	Paper-II Unit-III & IV		
1.	Aakansha Yogesh Mairal	8010923662	aakanshamairal17@gmail.com	Aymairal	Aymairal	Aymairal	Aymairal		
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3.	Anshul Ratanlal Yadav	9156494085	anshulyadav13563@gmail.com	Anshuly	Anshuly	Anshuly	Anshuly		
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5.	Dhanshree M. Neware	9359909913	Dhanashrineware786@gmail.com	Dneware	Dneware	Dneware	Dneware		
6.	Dolly Krushna Wanjari	9326013213	Krishnawanjari12345@gmail.com	Dolly	Dolly	Dolly	Dolly		
7.	Gauri Ramesh Bhoyar	8668335876	gunjanbhoyar34@gmail.com	Gauri	Gauri	Gauri	Gauri		
8.	Kartika Mohan Deshmukh	9649720460	Kartikamd20@gmail.com	Kdeshmukh	Kdeshmukh	Kdeshmukh	Kdeshmukh		
9.	Khushi Kamlakar Rewade			Absent					
10.	Krutika Subhash Pokale	9021533341	Pokalekrutika6@gmail.com	Kspokale	Kspokale	Kspokale	Kspokale		

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	Aakansha Yogesh Mairal	8010923662	aakanshamairal@gmail.com	Aymairal	Aymairal	Aymairal	
2.	Anjali Kishor Meshram			Anjali	Anjali		
3.	Anshul Ratanlal Yadav			Anshul	Anshul		
4.	Chanchal Kishor Waghmare	7796016894	waghcami-tava@gmail.com	chanchal	chanchal	chanchal	
5.	Dhanshree M. Neware			[illegible]	[illegible]		
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9.	Khushi Kamlakar Rewade	ABSENT					
10.	Krutika Subhash Pokale	9021533341	pokalekrutika6@gmail.com	Kspokale	Kspokale	Kspokale	

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12.	Muskan Vinay Kulkarni						
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23.	Umang Gandhar Warthi						
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Name & Signature of Teacher In-Charge

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IQAC Coordinator
IQAC Coordinator
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Science College, Nagpur

Dr. Akhilesh Peshwe
Principal
Principal
Dharampeth M.P. Deo Memorial
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-13

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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1.	Anjali Rajeshwar Thakre	7066554821	thakreanju381@gmail.com	Anjali	Anjali	—	—
2.	Anshul Yuvraj Kirnapure	9284067169	anshulkirnapure@gmail.com	Anshul	Anshul	—	—
3.	Anvay B. Borkar	9284067169	anvayborkar11@gmai,	Anvay	Anvay	—	—
4.	Aparna Gajanan Mohare	9254567557	[illegible]gmail.com	Aparna	Aparna	—	—
5.	Apeksha Digambar Kotangale	9421458726	ABSENT	—	—	—	—
6.	Arya Pritam Dhoke	9011681678	aryamamrata1331@gmail.com	Aryadhoke	Aryadhoke	Aryadhoke	Aryadhoke
7.	Komalika Sheshram Choudhari	9322033866	Komalikachaudhari073@gmail.com	Komalika	Komalika	Komalika	
8.	Nisha V. Pande	9921689246	Nishapandey7102003@gmail.com	Nisha	Nisha	Nisha	
9.	Nitu Birbahadur Rai	—	ABSENT	—	—	—	

10.	Pritam Sudhakar Kokode			ABSENT			
11.	Priyanshu Tejrao Raut	9322725233	Peiyanshuraut56@gmail.com				
12.	Ravindra Madhukar Khadse	8007198273	khadseravindra34@gmail.com				
13.	Vaishnavi Namdeorao Tonge	8421657943	vaishutonge2004@gmail.com				
14.	Vanshita Deorao Vaidya			ABSENT			
15.	Yogita Ramesh Denge	7058437240	yogitadenge@gmail.com				
16.							
17.							
18.							

Name & Signature of Teacher In-Charge

Mrs. Abha Khedikar.

Dr. Nitin Gaikwad

IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
Science College, Nagpur-440033

Name & Signature of Head of the Department

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe

Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF MICROBIOLOGY

Session: 2023 -2024

END SEMESTER EXAMINATION RESULT

Class: - B.Sc. II Sem -IV (Paper-I & II)

Sr. No.	Name of Students	Marks Obtained	
		Paper-I	Paper-II
1.	Anajali Rajendra Thakre	22/50	33/50
2.	Anshul Yuvraj Kirnapure	29/50	28/50
3.	Anyav Bhojraj Borkar	23/50	24/50
4.	Aparna GajananMohare	29/50	21/50
5.	Apeksha Digambar Kotangale	ABSENT	
6.	Arya Pritam Dhoke	24/50	29/50
7.	Komalika Sheshram chaudhari	25/50	26/50
8.	Nisha Vidyabhushan Pande	27/50	28/50
9.	Nitu Birbahadur Rai	ABSENT	
10.	Pritam S. Kokade	ABSENT	
11.	Priyanshu T. Raut	22/50	28/50
12.	Ravindra Madhukar Khadse	25/50	29/50
13.	Vaishnavi Namdeorao Tonge	27/50	28/50
14.	Vanshita Deorao Vaidya	ABSENT	
15.	Yogita Ramesh Denge	29/50	24/50
16.	Aakansha Yogesh Mairal	20/50	25/50
17.	Anjali Kishore Meshram	28/50	29/50
18.	Anshul Ratanlal Yadav	25/50	25/50
19.	Chanchal Kishor Waghwani	34/50	35/50

20.	Dhanshree Mohpal Neware	34/50	29/50
21.	Dolly Krushna Wanjari	35/50	29/50
22.	Gauri Ramesh Bhoyar	28/50	29/50
23.	Kartika Mohan Deshmukh	26/50	33/50
24.	Khushi Kamlakar Rewade	ABSENT	
25.	Krutika Subhash Pokale	28/50	29/50
26.	Meenal Amresh Choudhary	30/50	31/50
27.	Muskan Vijay Kulkarni	29/50	25/50
28.	Neha Lalchand Wanjari	28/50	29/50
29.	Pranali Yashwant Chavhare	33/50	28/50
30.	Pratiksha Mangal Meshram	29/50	25/50
31.	Ritika Rakesh Sondhiya	29/50	28/50
32.	Riya Anil Singh	29/50	29/50
33.	Samiksha Ambadas Khobragade	ABSENT	
34.	Shruti Surendra Channekar	28/50	29/50
35.	Shreya Ajitkumar Jha	30/50	31/50
36.	Siddhi Bhagwat Tiwari	28/50	29/50
37.	Sonali Gopal Choudhari	26/50	33/50
38.	Vaidehi Pawan Thote	28/50	29/50
39.	Umang Gangadhar Warthi	26/50	27/50
40.	Yashashree Ashok Pawar	28/50	29/50

Signature of Teacher Incharge
Mrs. Abha Khedikar.

Signature of HOD
Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

End Semester Examination

Bachelor of Science (B.Sc.) SEM- VI Examination

Microbiology

Immunology

Paper-I

Time: Three Hours] **[Maximum Marks:**50]

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

1.Describe Haematopoiesis and cells of Immune System along with diagram 10 M

OR

Discuss mechanisms of Non-specific Immune response. 10M

2. Describe structure and function of Secondary lymphoid organs along with the diagram 10M

OR

What are Immunoglobulins ? Describe various classes of Immunoglobulins along with their functions. 10M

3. (a)Write a note on ADCC. 5M
(b) Write a note on Acquired Immunity. 5M

OR

(c) Write a note on types of Cytokines. 5M
(d) Write a note on Clonal Selection theory 5M

4. (a) Write a note on Gel & Coomb Classification. 2.5M
(b) Difference between Immediate and delayed hypersensitivity 2.5M
(c) Write a note on Haemagglutination 2.5M
(d) Explain Arthus reaction. 2.5M

OR

(e) Write a note on Precipitation. 2.5 M
(f) Write a note on localized Anaphylaxis 2.5 M
(g) Write a note on Mantoux Test. 2.5M
(h) What is ELISA? Describe in brief Direct Elisa 2.5M

5. **Answer any ten questions:**
(a) What is Interferon ? 1M
(b) What are Neutrophils 1M
(c) What is Phagocytosis ? 1M
(d) Define Haptens. 1M
(e) Define Isoantigens. 1M
(f) What is the function of IgE? 1M
(g) What is T- cell receptor? 1M
(h) Define Cytokines. 1M
(i) What is Active Immunity? 1M
(j) Define Antibody titre. 1M
(k) Define Agglutination. 1M
(l) What is Rh compatibility ? 1M

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College, Nagpur

RTM Nagpur University Examination 2024

Bachelor of Science (B.Sc.) SEM- VI Examination

Microbiology

Paper-II

Time: Three Hours] **[Maximum Marks :** 50

N.B: (1) All questions are Compulsory and Carry Equal marks.
(2) Draw neat and labeled Diagram wherever necessary.

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1. Discuss in detail about different methods used for selection of recombinants. 10

OR

Give a detailed account of PCR and its applications. 10

2. Describe production of Salk Vaccine. 10

OR

Describe the process of production of monoclonal antibody and give its applications. 10

3. (c) Explain protoplast fusion with suitable example 5

(d) Describe biofertilizer with suitable examples. 5

OR

(c) Give an account of Bt genes and mechanism of action of cry proteins. 5

(b) Write notes on production of Soya Sauce 5

4. Write notes on:

(a) Glucose biosensor. 2½

(b) Applications of nanobiotechnology. 2½

(c) Production of Amylase by deep tank fermentation 2½

(d) Applications of enzymes in industry 2½

OR

(e) Application of Biosensor 2½

(f) Biochip 2½

(g) Methods of enzyme immobilization 2½

(h) Hazards of biotechnology. 2½

5. Solve any **ten** (**1** mark each):—

(i)What is the role of DNA ligase?

(ii) What is cosmid?

(iii) What is cDNA library?

(iv)What are edible vaccines?

(v) What is interferon?

(vi) What does BCG stand for?

(vii) Why certain food items are called oriental fermented food?

(viii) What is the significance of phosphate solubilizing bacteria in soil fertility?

(ix) What is the significance of golden rice?

(x) What is DNA microarray?

(xi) What is nonobiotechnology?

(xii) What is piezoelectric biosensor?

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-13

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	Aanchal Santosh Singh	7875537925	Santoshsingh23923@gmail.com	ABSENT		Aanchal Singh	
2.	Afrina Rahim Sheikh	8080083981	afrinasheikh973@gmail.com	Sheikh	Sheikh	Sheikh	
3.	Aniket Vinod Kukde	7709629106	akukade61@gmail.com	Kukade	Kukade	Kukade	
4.	Anushree Ghanshyam Chandel	9145631771	anuechandel2001@gmail.com	Chandel	Chandel	Chandel	
5.	Chirayu Bhagwant Dolas	8010135012	chirayudolas22@gmail.com	Dolas	Dolas	Dolas	
6.	Devesh Sanjay Longadge	9326246453	deveshlongadge@gmail.com	ABSENT	Devesh	Devesh	
7.	Gauri Arun Raut	9761813447	arunraut2003@gmail.com	G.Raut	G.Raut	G.Raut	
8.	Kalyani Chudaram Shahare	9307046378	Shaharekalyani5@gmail.com	Kshahare	Kshahare	Kshahare	
9.	Ketaki Ramchandra Kirpal	9112759060	Ketakikirpal13@gmail.com	Kirpal	Kirpal	Kirpal	
10.	Nikita Shriram Bhave	7820812749	nikitabhave98@gmail.com	N.S.Bhave	N.S.Bhave	N.S.Bhave	

11.	Pallavi Chandrabhan Borkar	9373187246	borkarpallavi93@gmail.com	Borker	Bor	Bor	Bor
12.	Prachal Manik Meshram	7028735508	prachalmeshram47@gmail.com	Prachal.m	Prachal.m	Prachal.m	
13.	Pratiksha Sampat Navghare	8623033760	Navgharepratiksha444@gmail.com	P.S.Navghare	P.S.Navghare	P.S.Navghare	
14.	Rushabh Madansen Chaudhari	7218862335	Chaudhoerushabh00@gmail.com	ABSENT	ABSENT	Chaudhari	
15.	Sagar Shrikant Bawane	9975460979	sagarbawane637@gmail.com	SSBawane	SSBawane	SSBawane	
16.	Samir Prakash Ghumde	9359236713	sameerghumde002@gmail.com	SGhumde	SGhumde	SGhumde	
17.	Shital Gopichand Bankar	7758055139	shitalbankar122@gmail.com	S.G.Bankar	S.G.Bankar	S.G.Bankar	
18.	Shreya Ravindra Deshmukh	ABSENT				Shreya.	
19.	Smruti Mohan Vaidya	8856908764	Smrutiv30@gmail.com	Svaidya	Svaidya	Svaidya	
20.	Sudhanshu Ramesh Uikey	7028423173	Shudhanshuuikey143@gmail	Suikey	Suikey	ABSENT	
21.	Swati Sanjay Longadge	8390516517	Swatilongadge11@gmail.com	Slongadi	Slongadi	Slongadi	
22.	Vaibhav Arun Malewar	8767838219	vaibhavmalewar194@gmail.com	V.Malewar	V.Malewar	V.Malewar	
23.	Vaishnavi Tarachand Kapse	8983757089	vaishnavikapse05@gmail.com	VKapse	VKapse	VKapse	
24.	Vishakha Devidas Baswante	8329639834	Vishakhabaslulante@gmail.com	VBaslute	ABSENT	VBaslute	
25.							
26.							

27.							
28.							
29.							
30.							

Pimple

Name & Signature of Teacher In-Charge

Gaikwad

Dr. Nitin Gaikwad

IQAC Coordinator

IQAC Coordinator
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Science College, Nagpur-440033

Name & Signature of Head of the Department

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Akhilesh Peshwe

Principal

Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF MICROBIOLOGY
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-14,15

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	Aditya Mithilesh Tiwari	8668683697	Ptadityaticoarilo8o@gmail.com	A.M.tiwari	A.M.tiwari	A.M.tiwari	
2.	Aman Anil Dongre	7709217312	amandongre2003@gmail.com	Dongre	Dongre	Dongre	
3.	Anagha Ramchandra Sainis	8073972574	anaghasainis@gmail.com	A.R.Sainis	A.R.Sainis	A.R.Sainis	
4.	Anjali Anil Mishra	9325604513	anjalimishra@gmail.com	ABSENT	ABSENT	Anjali	
5.	Chhakuli Ganesh Wadikar	9325047907	chhakuwadikar@gmail.	ABSENT	ABSENT	Chhakuli	
6.	Darshna Sudhakar Madavi	8830146518	Drishnamadavi@gmail.com	Madavi	ABSENT	Madavi	
7.	Dhanshree Yashwant Newalkar	9356516280	newalkardhanshri@gmail.com	D.Ne	D.Ne	D.Ne	
8.	Gargi Laxmikant Hadge	7972076671	gargihadge@gmail.com	ABSENT		GH	
9.	Harsh Shankar Kodape			ABSENT			
10.	Jagruti Dhanraj Warkar	7447366023	jagrutiwarkar09@gmail.com	[illegible]	[illegible]	[illegible]	

11.	Juhi Sheshram Chaudhari	8669248944	chaudharijuhi120@gmail.com	Juhi	Juhi	Juhi	
12.	Jyoti Jitendra Sharma	8669736380	jyoti58390@gmail.com	ABSENT		J. sharma	
13.	Kalpana Deoras Suhagpure	9579236712	kalpanasuhagpure@gmail.com	Kalpana		Kalpana	
14.	Mansi Diwakar Raut			ABSENT			
15.	Mansi Ishwar Mate	8468891807	mansi91182@gmail.com	Mate	Mate	Mate	
16.	Niket Yuvraj Thakre	7378899037	niketthakre82@gmail.com	N Thakre	N Thakre	N Thakre	
17.	Pooja Suresh Itankar	9156973252	poojaitankar987@gmail.com	ABSENT		Itankar	
18.	Prajwal Surendra Bhoyar	8010434634	Prajwalb738@gmail.com	ABSENT			
19.	Rohit Ashok Parate	9373097285	Parateroohit8@gmail.com			Parate	
20.	Rupesh Chandu Bhokre	8805887370	bhokrerupesh@gmail.com	Bhokre	Bhokre	Bhokare	
21.	Sakshi Sudhirkumar Meshram	9145355733	Sakshimeshram210@gmail.com	Smshi	Smshi	Smshi	
22.	Sania Midhat Mohd. Anees Raza	8975726700	midhatsania@gmail.com	Raza	ABSENT	Raza	
23.	Shrawani Rajkumar Warkhede	7058368837	Shrawaniwarkhede1@gmail.com	ABSENT		Shra	
24.	Shreya Sunil Dhawale	9888264004	Shreyadhawale124@gmail.com	ABSENT			
25.	Shubham Chaitra Bisen	7083505411	shubhamolbisen@gmail.com	ABSENT		Bisen	

26.	Shyamal Dnyaneshwar Nasre	9765943998	shyamalnasre@gmail.com	ABSENT	ABSENT		
27.	Siddharth Gajanan Hirkane	9579969291	hirkanesiddharth1234@gmail.com	AB	ABSENT		
28.	Sumit Sharad Bandebuche	8788212339	Sumitbandebuche100@gmail.com	ABSENT			
29.	Surabhi Rajesh Pardhi	ABSENT					
30.	Tejas Vilas Rewade	7796027056	tejasrewade868@gmail.com				
31.	Tina Gajanan Rahangdale	9921776769	tinarahangdale@gmail.com	ABSENT			
32.	Twinkal Ganesh Lokhande	8149176609	twinkallokhande14@gmail.com	ABSENT			
33.	Urmila Vijay Bondre	9370673867	bondreurmila.2000@gmail.com				
34.	Vaibhavi Amar Shende	8080640782	vaibhavishende92@gmail.com	V.A.Shende	V.A.Shende	V.A.Shende	
35.	Vaishnavi Janardan Bedade	8830107397	bedadevaishnavi1@gmail.com		ABSENT		
36.	Vaishnavi Rajesh Lakhe	8669594864	chinakuli lakhe536@gmail.com	ABSENT			
37.	Vaishnavi Ruprao Nandpure	9322439816	Valshnavi@.gmail.com	ABSENT			
38.	Vaishnavi Vijay Gadge	9022976449	gadgevaishnavi00@gmail.com	ABSENT			
39.	Vedant Vilas Baxy	8530455746	vedantbaxy2003@gmail.com	ABSENT			

Name & Signature of Teacher In-Charge

Mrs. Abha Khedikar.

Name & Signature of Head of the Department

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dr. Nitin Gaikwad

IQAC Coordinator

IQAC Coordinator
Dharampeth M. P. Deo Memorial
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Dr. Akhilesh Peshwe

Principal

Principal
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Science College, Nagpur.

DHARAMPETH M.P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

Department of Microbiology

Internal Assessment 2023-24

End Semester Examination Result

B.Sc. III Semester VI

Sr No	Name of students	Marks Obtained	Signature
		Paper I	
1	Aanchal Santosh Singh	—	—
2	Afrina Rahim Sheikh	25/50	Sheikh
3	Aniket Vinod Kukde	28/50	Aniket
4	Anushree Ghanshyam Chandel	29/50	Chandel
5	Chirayu Bhagwant Dolas	24/50	CBDolas
6	Devesh Sanjay Longadge	ABSENT	—
7	Gauri Arun Raut	25/50	GRaut
8	Kalyani Chudaram Shahare	28/50	KShahare
9	Ketaki Ramchandra Kirpal	25/50	KKirpal
10	Nikita Shriram Bhave	29/50	N.S.Bhave
11	Pallavi Chandrabhan Borkar	ABSENT	—
12	Prachal Manik Meshram	30/50	Prachal M.
13	Pratiksha Sampat Navghare	28/50	P.S.Navghare
14	Rushabh Madansen Chaudhari	ABSENT	—
15	Sagar Shrikant Bawane	29/50	SSBawane
16	Samir Prakash Ghumde	30/50	SPghumde
17	Shital Gopichand Bankar	31/50	S.G.Bankar
18	Shreya Ravindra Deshmukh	ABSENT	—
19	Smruti Mohan Vaidya	32/50	Svaidya
20	Sudhanshu Ramesh Uikey	31/50	Suikey
21	Swati Sanjay Longadge	32/50	Swati
22	Vaibhav Arun Malewar	31/50	V.A.malewar
23	Vaishnavi Tarachand Kapse	31/50	VKapse
24	Vishakha Devidas Baswante	32/50	VBadwate
25	Aditya Mithilesh Tiwari	18/50	A.M.tiwari

26	Aman Anil Dongre	24/50	Dongre
27	Anagha Ramchandra Sainis	23/50	A.R. Sainis
28	Anjali Anil Mishra	ABSENT	×
29	Chhakuli Ganesh Wadikar	ABSENT	×
30	Darshna Sudhakar Madavi	28/50	Dmadavi
31	Dhanshree Yashwant Newalkar	29/50	D.N
32	Gargi Laxmikant Hadge	ABSENT	×
33	Harsh Shankar Kodape	ABSENT	×
34	Jagruti Dhanraj Warkar	30/50	[illegible]
35	Juhi Sheshram Chaudhari	24/50	Juhi
36	Jyoti Jitendra Sharma	ABSENT	×
37	Kalpana Deoras Suhagpure	28/50	Kalpana
38	Mansi Diwakar Raut	ABSENT	×
39	Mansi Ishwar Mate	29/50	Mmate.
40	Niket Yuvraj Thakre	30/50	NThakre
41	Pooja Suresh Itankar	ABSENT	×
42	Prajwal Surendra Bhoyar	ABSENT	×
43	Rohit Ashok Parate	ABSENT	×
44	Rupesh Chandu Bhokre	31/50	RBhokre
45	Sakshi Sudhirkumar Meshram	24/50	Smshi
46	Sania Midhat Mohd. Anees Raza	29/50	SRaza
47	Shrawani Rajkumar Warkhede	ABSENT	×
48	Shreya Sunil Dhawale	ABSENT	×
49	Shubham Chaitra Bisen	ABSENT	×
50	Shyamal Dnyaneshwar Nasre	ABSENT	×
51	Siddharth Gajanan Hirkane	ABSENT	×
52	Sumit Sharad Bandebuche	ABSENT	×
53	Surabhi Rajesh Pardhi	ABSENT	×
54	Tejas Vilas Rewade	28/50	[illegible]
55	Tina Gajanan Rahangdale	ABSENT	
56	Twinkal Ganesh Lokhande	ABSENT	
57	Urmila Vijay Bondre	26/50	Ubondre
58	Vaibhavi Amar Shende	28/50	V.A. Shende

59	Vaishnavi Janardan Bedade	24/50	Bedade
60	Vaishnavi Rajesh Lakhe	ABSENT	×
61	Vaishnavi Ruprao Nandpure	ABSENT	×
62	Vaishnavi Vijay Gadge	ABSENT	×
63	Vedant Vilas Baxy	ABSENT	×

(Teacher Incharge)

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

DHARAMPETH M.P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

Department of Microbiology

Internal Assessment 2023-24

End Semester Examination Result

B.Sc. III Semester VI

Sr No	Name of students	Marks Obtained	Signature
		Paper II	
1	Aanchal Santosh Singh	AB	AB
2	Afrina Rahim Sheikh	18	Sheikh
3	Aniket Vinod Kukde	08	Aukad
4	Anushree Ghanshyam Chandel	22	Chandel
5	Chirayu Bhagwant Dolas	26	CBDolas
6	Devesh Sanjay Longadge	AB	Devesh
7	Gauri Arun Raut	12	G.Raut
8	Kalyani Chudaram Shahare	10	KShahare
9	Ketaki Ramchandra Kirpal	28	KKirpal
10	Nikita Shriram Bhave	24	N.S Bhave
11	Pallavi Chandrabhan Borkar	AB	AB
12	Prachal Manik Meshram	16	Prachal.M
13	Pratiksha Sampat Navghare	13	P.S.Navghare
14	Rushabh Madansen Chaudhari	AB	AB
15	Sagar Shrikant Bawane	25	SSBawane
16	Samir Prakash Ghumde	22	SPghumde
17	Shital Gopichand Bankar	10	S.GBankar
18	Shreya Ravindra Deshmukh	AB	AB
19	Smruti Mohan Vaidya	28	Svaidya
20	Sudhanshu Ramesh Uikey	07	Suikey
21	Swati Sanjay Longadge	28	Sswati
22	Vaibhav Arun Malewar	26	V.Amalewar
23	Vaishnavi Tarachand Kapse	11	vkapse
24	Vishakha Devidas Baswante	AB	AB
25	Aditya Mithilesh Tiwari	01	A.M.tiwari

26	Aman Anil Dongre	10	Dongre
27	Anagha Ramchandra Sainis	A.R. Sainis	A. R. Sainis
28	Anjali Anil Mishra	AB	AB
29	Chhakuli Ganesh Wadikar	AB	AB
30	Darshna Sudhakar Madavi	AB	AB
31	Dhanshree Yashwant Newalkar	11	D. N
32	Gargi Laxmikant Hadge	AB	AB
33	Harsh Shankar Kodape	AB	AB
34	Jagruti Dhanraj Warkar	24	Jwarkar
35	Juhi Sheshram Chaudhari	27	Juhi
36	Jyoti Jitendra Sharma	AB	AB
37	Kalpana Deoras Suhagpure	AB	Kalpana
38	Mansi Diwakar Raut	AB	AB
39	Mansi Ishwar Mate	19	Mmate
40	Niket Yuvraj Thakre	17	NThakre
41	Pooja Suresh Itankar	AB	AB
42	Prajwal Surendra Bhoyar	AB	AB
43	Rohit Ashok Parate	AB	AB
44	Rupesh Chandu Bhokre	04	RBhokre
45	Sakshi Sudhirkumar Meshram	016	Smhi
46	Sania Midhat Mohd. Anees Raza	AB	AB
47	Shrawani Rajkumar Warkhede	AB	AB
48	Shreya Sunil Dhawale	AB	AB
49	Shubham Chaitra Bisen	AB	AB
50	Shyamal Dnyaneshwar Nasre	AB	AB
51	Siddharth Gajanan Hirkane	AB	AB
52	Sumit Sharad Bandebuche	AB	AB
53	Surabhi Rajesh Pardhi	AB	AB
54	Tejas Vilas Rewade	04	Tejas
55	Tina Gajanan Rahangdale	AB	AB
56	Twinkal Ganesh Lokhande	AB	AB
57	Urmila Vijay Bondre	20	Ubondre
58	Vaibhavi Amar Shende	10	V.A Shende

59	Vaishnavi Janardan Bedade	AB	AB
60	Vaishnavi Rajesh Lakhe	AB	AB
61	Vaishnavi Ruprao Nandpure	AB	AB
62	Vaishnavi Vijay Gadge	AB	AB
63	Vedant Vilas Baxy	BB	AB

Pimple

(Teacher Incharge)

Head
Deptt. of Microbiology
Dharampeth M. P. Deo Memorial
Science College, Nagpur

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- II Examination

STATISTICS (Probability Distribution)

Paper-I

Time: 1.30 pm to 4.30 pm] **[Maximum Marks: 50]**

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1. (A) Derive the p.m.f of a Binomial distribution. Find its first three raw moments about origin.Comment on the Skewness of Binomial distribution. **10M**

OR

(E) State and prove additivity property of Poisson distribution.

(F) State p.m.f of a Poisson distribution, find its mean and variance.

(G) State the p.m.f of a Bernoulli distribution. Obtain its m.g.f. Hence find mean and variance of this distribution.

(H) Find mode of the Binomial distribution with p = 2 1 and n = 7. **2½×4=10**

2. (A) Derive the p.m.f. of a Geometric distribution. State and prove the lack of memory property possessed by this distribution

(B) Derive m.g.f. of Geometric distribution. Hence find its mean and variance.

(C) State p.m.f. of negative Binomial distribution. Find its m.g.f and hence find mean of the distribution.

(D) Derive p.m.f. of Hypergeometric distribution and find its mean **10M**

OR

(E) State p.m.f. of Negative Binomial distribution. Find its mean and variance. In an experiment of throwing a fair die if the face numbered 4 turns up it will be treated as a success otherwise a failure. What is the probability of getting 4 th success in the 6 th trial? **10M**

3. (A) State p.d.f. of normal distribution. Derive recurrence relation for even ordered centrai moments. Hence find μ2. Comment on Kurtosis of a distribution. Also show that the distribution is symmetric about its mean by calculating its mean and mode. **10M**

OR

(E) Define Standard Normal Variable. State its p.d.f. Find m.g.f. of standard normal distribution and hence find its mean and variance.

(F) Explain Area Property of Normal distribution.

4. (A) State p.d.f. of exponential distribution and find its mean and variance.

(B) State and prove lack of memory property of exponential distribution.

(C) State p.d.f. of Beta distribution of second kind. Find r th moment of this distribution.

(D) State and prove additive property of Gamma distribution with one parameter. **2½×4=10**

OR

(E) State p.d.f. of Gamma distribution with parameter l. Find its m.g.f. and hence find mean and variance of the distribution. Also find mode of Gamma distribution. State and prove additive property of Gamma distribution. **10M**

5. Solve any TEN questions:

(A) Define Bernoulli trial.

(B) Find m.g.f. of Bernoulli distribution

(C) Find mode of the Binomial distribution with p = 2 1 and n = 7.

(D) Give one real life example where geometric distribution is applicable.

(E) State the parameters of hyper geometric distribution

(F) Why is the Geometric distribution named so?

(G) State the area property of a Normal distribution.

(H) State the p.d.f of beta distribution of second type.

(I) State the continuous distribution for which mean is equal to variance.

(J) Comment on the skewness of Gamma distribution with one parameter.

(K) Comment on the skewness of Binomial distribution.

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- II Examination

STATISTICS (Descriptive Statistics II)

Paper-II

Time: 1.30 pm to 4.30 pm] **[Maximum Marks: 50]**

1 (A) Define mean, median and mode. State the drawbacks of each of them. Give practical situations where each of the above measures of central tendency can be most appropriately used. **10M**

OR

(E) Explain the effect of change of origin and scale on mean. Also, derive the formula for median and mode to be used in a grouped frequency distribution

2 (A) What are the desirable properties of a measure of dispersion?

(B) Prove that root mean square deviation can never be less than standard deviation.

(C) Derive the formula for pooled variance of two groups of values.

(D) Define coefficient of variation and explain its use. **2.5×4=10M**

OR

(E) Define mean deviation and quartile deviation. Show that mean deviation is the least when measured from median. Also state the formula of mean deviation from an average A in case of a grouped frequency distribution. Give two situations where quartile deviation is more suitable than mean deviation as a measure of dispersion.

(F) Derive the relationship between raw moments and central moments. Hence, state the formulae for first four central moments. **5 + 5M**

3 (A) Define quartile of a frequency distribution. Explain how they can be graphically located. Explain use of quartiles in studying Skewness of frequency distribution. Define a coefficient of Skewness based on quartiles. Derive its limits. **10 M**

OR

(E) Draw a sketch of box plot. How can box-plot be used to study Skewness of a distribution? What are outliers? How can these be detected using a box-plot? How to ascertain Kurtosis with the help of b2?

4 (A) Explain the use of rank correlation. Derive the formula for Spearman's rank correlation in case of no tie. (B) Define correlation coefficient and regression coefficients. State relationship between them. Prove that if one regression coefficient is greater than unity, other must be less than unity. **5+5 M**

OR

(E) Derive the expression for line of best fit of Y on X by the method of least squares. Explain effect of change of origin and scale on regression coefficients. **10 M**

5. Solve any TEN of the following questions:

(A) State empirical relation between mean, mode and median.

(B) Give the formula for weighted arithmetic mean.

(C) How will the harmonic mean of a set of observations change if each observation is multiplied by constant K?

(D) For a perfectly symmetrical distribution, if the semi-interquartile range is 26 and median is 78, find the lower and upper quartiles.

(E) Define root mean square deviation.

(F) Explain the use of third central moment.

(G) Explain the need of Sheppard's correction for moments.

(H) Which decile, quartile and percentile are equal?

(I) Define Karl Pearson's Coefficient of Skewness.

(J) Derive the limits for Bowley's Coefficient of Skewness.

(K) Give a real life example of negatively correlated variables.

(L) Can the slopes of two regression lines be opposite in sign? Justify your answer. **1×10=10M**

(G) What is a standard Latin Square ?

(H) How is LSD, an improvement over RBD ?

(I) Define an orthogonal treatment contrast.

(J) Give an expression for main effect B in 23 -factorial experiment.

(K) State the d.f. for total sum of squares in a 22 -factorial experiment.

(L) Define critical difference for testing the significance of difference between two treatment mean.

1×10=10

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-1

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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Principal
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-II

F-2

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
B.SC. SEM.II SUMMER-2024
Unit Test Marks

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	Anchveer R.Chimane	A	05
2	Aman S.Gupta	A	A
3	Ansh K. Gajbhiye	A	A
4	Ayush D.Yadav	03	05
5	Ayush S. Rai	A	A
6	Ayush M. Asolkar	A	03
7	Girendra K.Chaudhari	A	A
8	Gauri V.Ivanate	01	00
9	Gauri Dhone	14	05
10	Harsh V. Masram	A	A
11	Isha R. Kewate	10	07
12	Mrunali S. Lajurkar	01	03
13	Mayuri S. Nagpure	A	06
14	Muskan D. Mathure	12	04
15	Nishant A. Kadu	A	A
16	Om S. Kalaskar	A	A
17	Purva D. Zingre	A	A
18	Puja D. Beldar	13	09
19	Ruchika P. Kurhadkar	13	06
20	Sarvesh M. Gethe	01	00
21	Samruddhi P. Patle	03	09
22	Shreya B. Mate	01	13
23	Shantanu M. Songirikar	A	A
24	Sumit R. Mahato	A	A
25	Saurabh A. Bagde	03	06
26	Suhani M. Dahake	A	A
27	Revati P. Bonde	A	A
28	Tushar V. Manerao	A	A
29	Tanishka S. Yadav	10	06
30	Urvashi J. Limje	24	19
31	Yashwant M. Ghime	02	A
32	Yogesh S. Lohkare	A	A

In- Charge

Department of Statistics

Dharampeth M.P.Deo Memorial Science College, Nagpur

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UNIT TEST -I SEM- IV Examination

STATISTICS (Statistical Inference)

Paper-I

Time: 1.30 pm to 4.30 pm] **[Maximum Marks: 50]**

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1 Define: **10M**

(i)Statistical hypothesis (ii) Critical region (iii) Null hypothesis (IV) Level of significance (v) Critical value

Or

Define UMVUE. State Cramer Rao inequality. Explain its use. If a random sample is drawn from N (m, 1) population, then using CRLB show that the sample mean is UMVUE.

2 A) Describe the following tests: — (i) paired t-test. **10M**

(ii) Testing significance of sample correlation coefficient. 10 Also construct 95% confidence intervals for the difference of population means when the samples are paired

Or

(E) Explain t-test for a single mean, stating the assumptions. Also construct 100(1 – a) % confidence interval for the population mean.

(F) Explain t-test for testing the equality of population means of two populations. **5+5M**

3 Derive the formula for Chi-square test statistic in a 2×2 contingency table. Explain Yates' correction and obtain the modified formula after application for Yates' correction. **10M**

Or

(E) Derive Brandt-Snedecor's formula for Chi-square in a 2 × K contingency table.

(F) Explain the Chi-square test for testing the specified value of population variance. Also explain the construction of confidence interval for population variance. Assume that population mean is unknown. **5+5M**

4 Explain the large sample tests for testing the equality of (i) two population means and (ii) two population proportions, by deriving the test-statistic, stating the critical region for all the three alternative hypotheses. **10M**

Or

(E) State Central Limit theorem and explain its use in testing for a specified value of population mean. Also develop 100(1 – a) % confidence interval for population mean

(F) Explain the test for testing the equality of two population proportions. Also construct 100(1 – a) % confidence interval for the difference of two population proportions. **5+5M**

5 solve **10M**

(A)How does the width of confidence interval depend on: (i) Confidence coefficient and (ii) Standard error of statistic used for estimating the interval?

(B) How is p-value used to accept or reject null hypothesis?

(C) State the test statistic and critical region for F-test for equality of two variances when population means are unknown.

(D) Which test is used to test the significance of sample correlation coefficient based on sample drawn from bivariate normal elistribution? Write the test-statistic.

(E) What is Yates' correction?

(F)Is it possible to have each expected frequency to be larger than observed, while testing goodness of fit? Justify.

(G) If the observed value of Chi-square is zero in the test for goodness of fit, then what is the conclusion?

(H)State the distribution of test statistic in large sample test

(I)State the null and alternative hypothesis of Chi-square test for homogeneity.

(J)How are degrees of freedom calculated in Chi-square test for goodness of fit?

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- IV Examination

STATISTICS (Applied Statistics)

Paper-II

Time: 1.30 pm to 4.30 pm] **[Maximum Marks: 50]**

1. (A) Explain giving formula, the following rates: (i) Cause-of-death rate (ii) Infant mortality rate (iii) Case fatality rate. Also write their uses and limitations. **10M**

OR

(B) Write the method of vital statistics and their uses. Explain
(i) Crude death rate
(ii) Specific death Rate
(iii) Standardized Death rate

2. (A) Define Age—S.F.R. with its merits and demerits. Explain the concept of stable population. State the conditions under which stable population becomes stationary.
(B) Define: (1) Crude rate of natural increase
(2) Pearle's vital index. State their uses and limitations.
Define G.R.R. and N.R.R. Explain how N.R.R. is an improvement over G.R.R. **5+5**

OR

(E) Discuss the following fertility rates stating their merits and demerits:
(i) Crude Birth Rate (C.B.R.)
(ii) General Fertility Rate (G.F.R.)
(iii) Age Specific Fertility Rate (Age—S.F.R.)
(iv) Total Fertility Rate (T.F.R.). **10**

3. (a) Describe the construction of following scores stating the underlying assumptions and compare them: (i) Standard Score (ii) Normalized Score (iii) T-Score (iv) Percentile Score.

OR

(e) Explain the following scaling procedures stating their objectives and underlying assumptions: (i) Scaling individual test items in terms of difficulty.
(ii) Scaling of ratings in terms of normal density curve. **10**

4. (a) Discuss the following three methods of estimating test reliability stating their relative merits and demerits: (i) Test—Retest method (ii) Split—Half method (iii) Kuder—Richardson method. **10**

OR

(e) Define validity of a test. How is it estimated? Explain the following concepts of validity:
(i) Predictive validity (ii) Concurrent validity (iii) Content validity (iv) Construct validity.

5. Solve any ten questions from the following questions : **10M**
(a) Define cause of death rate.
(b) State any two uses of vital statistics.
(c) What is the main difference in C.D.R. and Age—S.D.R. ?
(d) Why is Pearle's vital index a crude measure of population growth?
(e) When will N.R.R. be equal to G.R.R.?
(f) State the drawbacks of G.R.R.
(g) Define the difficulty value of an item in an educational test.
(h) State the relation between Z-score and standard score.
(i) What is the drawback of percentile score?
(j) Define parallel tests.
(k) Show that index of reliability is always greater than reliability coefficient.
(l) Define the term 'Mental Ratio'

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-1

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-IV

S-2

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

DEPARTMENT OF STATISTICS

B.SC. SEM.IV SUMMER-2024

Unit Test Marks

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1	AKSHAY R.SINGH	06	05
2	DEVANGI S.AGASHE	A	A
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4	DIVYANI V. ZAGADE	15	20
5	ISHITA N.DESHPANDE	14	20
6	JAGRUTI G.FULKAWAR	25	30
7	JANHVI H.LAIBER	11	05
8	JANHVI A.KIRNAPURE	09	05
9	JANHVI V.KHODE	10	05
10	MAHIMA S.KHARE	00	02
11	MEGHA S.BALLAV	00	15
12	MOHIT M.KHIRDEKAR	07	02
13	NAYAN N.WALTHARE	02	03
14	NIKHIL S.KALE	A	A
15	NISHA S.KOSARKAR	07	00
16	NITALI M. TAGDE	A	A
17	PRADNYA B.TIRPUDE	06	03
18	PRANALI V.GUPTA	41	37
19	PRANALI R.DEHANKAR	08	05
20	PRATISH D.GOLAIT	A	A
21	PRITAM S.KATWE	08	05
22	RUTIKA G.YADAV	14	15
23	SAKSHI A.MISHRA	10	00
24	SRUSHTI A.GAIKWAD	A	A
25	SONIA S.NIWAL	13	29
26	SURAJ R.DUBEY	A	A
27	UTKARSHA S.INGALE	A	A
28	VARSHA L.TURKAR	07	13
29	VEENA U.BORIKAR	10	22
30	VIVEK S.SAH	A	A
31	VIDYA E.LOHI	A	01
32	YADNYIK S.DHAGE	00	05

In- Charge

Department of Statistics

Dharampeth M.P.Deo Memorial Science College, Nagpur

Dharampeth M. P. Deo Memorial Science College, Nagpur

UNIT TEST -I SEM- VI Examination

STATISTICS (Operation Research)

Paper-I

Time: 1.30 pm to 4.30 pm] **[Maximum Marks: 50]**

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1 (A) What is critical path? Explain different types of float associated with activities in network. What will be float for critical activity?

(B) Explain looping and dangling in the Network analysis with the help of network diagram. How these can be avoided? **5+5 M**

OR

(E) Discuss PERT analysis. **10M**

2 (A) Define cost-slope of an activity. How is cost slope used in crashing the project? Which activity should be preferentially crashed? Which activity when crashed will not reduce project duration? **10M**

OR

(E) If for certain feasible solutions to the primal and dual their respective objective functions attain same value, then prove that the feasible solutions are optimum solutions.

(F) For a primal-dual pair, if there exists an optimum solution to either, then there exists optimum solution to other. **5+5 M**

3 (A) Prove that a transportation problem has a triangular basis.

(B) Describe the Vogel's approximation method used for finding initial basic feasible solution to a transportation problem. **5+5 M**

OR

(E) Prove that necessary and sufficient condition for transportation problem to attain a feasible solution is that it should be balanced.

(F) Discuss North-West Corner Rule for determining the initial basic feasible solution to a transportation problem. When will the solution be degenerate? **5+5 M**

4 (A) Discuss Hungarian method for obtaining an optimal solution of an assignment problem. **10 M**

OR

(B) Describe MODI method.

5. Solve **10M**

(A) Distinguish between float and slack

B) State two uses of dummy activity.

(C) Which events will always have zero slack?

(D) Stating whether the following statements are true or false, rewrite the correct statements: (i) Dual of a dual LPP is again a dual problem. (ii) If a primal has an unbounded objective function then dual has no feasible solution.

(E) If a LPP consists of 3 constraints with 5 variables, which one will be easy to solve, the given LPP or its dual? Give reason for the answer.

(F) Which activity or activities should be crashed, as and when, there are multiple critical paths, to reduce the project duration?

(G) Define a loop in a transportation table.

(H) What could be the number of positive allocations in a transportation problem for the solution to be basic feasible; given that the problem has m-sources and n-destinations.

(I) In a transportation problem there are 7-sources and 8-destinations. State the number of allocations in a non-degenerate basic feasible solution for this problem.

(J) When will an assignment problem have an alternate optimal solution?

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UNIT TEST -I SEM- VI Examination

STATISTICS (Applied Statistics)

Paper-II

Time: 1.30 pm to 4.30 pm] **[Maximum Marks: 50]**

1. (A) Give complete statistical analysis of variance of two way classified data with one observation per cell. **10**

OR

(E) Explain the linear model in analysis of variance of one way classified data with unequal number of entries in classes. Obtain the breakup of total sum of squares. Also obtain expected values of various mean sum of squares. Write its ANOVA table. Explain how various hypotheses can be tested. **10**

2. (A) Which basic principles of design of experiments are used in C.R.D. ? Carry out complete statistical analysis of C.R.D. **10**

OR

(E) What is meant by 'Design of an experiment'? Describe in brief the three principles of designs of experiment. How are these principles used in C.R.D., R.B.D. and L.S.D.? **10**

3. (A) Give a layout of randomized block design with 3 blocks and 4 treatments. State the mathematical model of R.B.D. and describe various terms involved in it. Give the complete analysis of an R.B.D. assuming the expected values of various sum of squares. **10**

OR

(E) Explain the procedure of testing the significance of the difference between two treatment means in R.B.D.

(F) Derive an expression for relative efficiency of R.B.D. with respect to C.R.D.

(G) Obtain the expected value of mean sum of squares due to treatment in L.S.D.

(H) What are the advantages of Latin Square Design ? State its drawbacks. **2.5×4=10**

4. (A) Define a linear contrast. When are two such contrasts said to be orthogonal ? A 23 -factorial experiment is arranged in an R.B.D. with r replicates. Show that in this experiment, the main effects A and B and interaction effects AB and ABC are orthogonal contrasts to each other. Also describe the procedure for testing the significance of various main effects and interaction effects. **10**

OR

(B) State the difference between simple experiments and factorial experiments. Carry out complete analysis of a 22 -factorial experiment arranged in an R.B.D. **10**

5. Solve any ten :

(A) Who developed the ANOVA Technique ?

(B) State the linear model for one way ANOVA.

(C) What is d.f. for E.S.S. in 3-way classified data ?

(D) What is meant by efficiency of a design ?

(E) State any one objective of randomisation. (

(F) State any one disadvantage of RBD.

DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-1

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
				Paper-I	Paper-II		
1.	VRUSHALI KHUMDEO SHAHARE	9307516332	Vrushalishahare25@gmail.com				
2.							
3.							
4.							
5.							

Name & Signature of Teacher In-Charge

Dr. Nitin Gaikwad

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Name & Signature of Head of the Department

Dr. Akhilesh Peshwe

Principal
Dharampeth M.P. Deo Memorial Science College, Nagpur.

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DEPARTMENT OF STATISTICS
Internal Assessment 2023-24

Attendance Sheet (DVV)

B. Sc. Sem.-VI

T-2

Sr. No.	Name of the Students	Mobile No.	Email Id	End Semester Examination		Assignment or any other activity	Remarks if any
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3.	DEVANG SACHIN KARIA						
4.	HARSHAL NAMDEO AJANKAR	9527732398	Harshalajankar98@gmail.com	H.N.D	H.N.A	H.N.A	
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7.	PRAJAKTA SANJAY PAWAR						
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10.	SARTHAK SANJAY JICHKAR	8605710878	sarthakjichkar@gmail.com			15/04/24	
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15.	TUSHAR YAMRAJ ATKARI						
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19.							
20.							

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DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR
DEPARTMENT OF STATISTICS
B.SC. SEM.VI SUMMER-2024
Unit Test Marks

Sr.No.	Name of Student	PAPER-I	PAPER-II
1	AMAN D. CHAVHAN	A	A
2	ANJALI V. RANGANKAR	07	A
3	AVISHKAR A. BANSOD	A	05
4	DEVANG S. KARIA	A	A
5	HARSHAL N. AJANKAR	15	12
6	ISHA S. NEMADE	17	09
7	KETAN S. BHOYAR	15	05
8	KHUSHI D. WAGHADE	06	A
9	PRAJKTA S. PAWAR	A	A
10	P. R. PARASHAR	A	A
11	SAHIL B. SINGH	A	A
12	SUMIT V. SABLE	A	A
13	SARTHAK S. JICHKAR	08	10
14	SUMAN R. SINGH	A	04
15	SWAMINI S. RAJANKAR	A	A
16	SHIVANI G. GHUBADE	A	A
17	VAISHNAVI D. JADHAV	07	06
18	VICKY A. SINGH	05	09
19	VRUSHALI K. SHAHARE	08	10

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