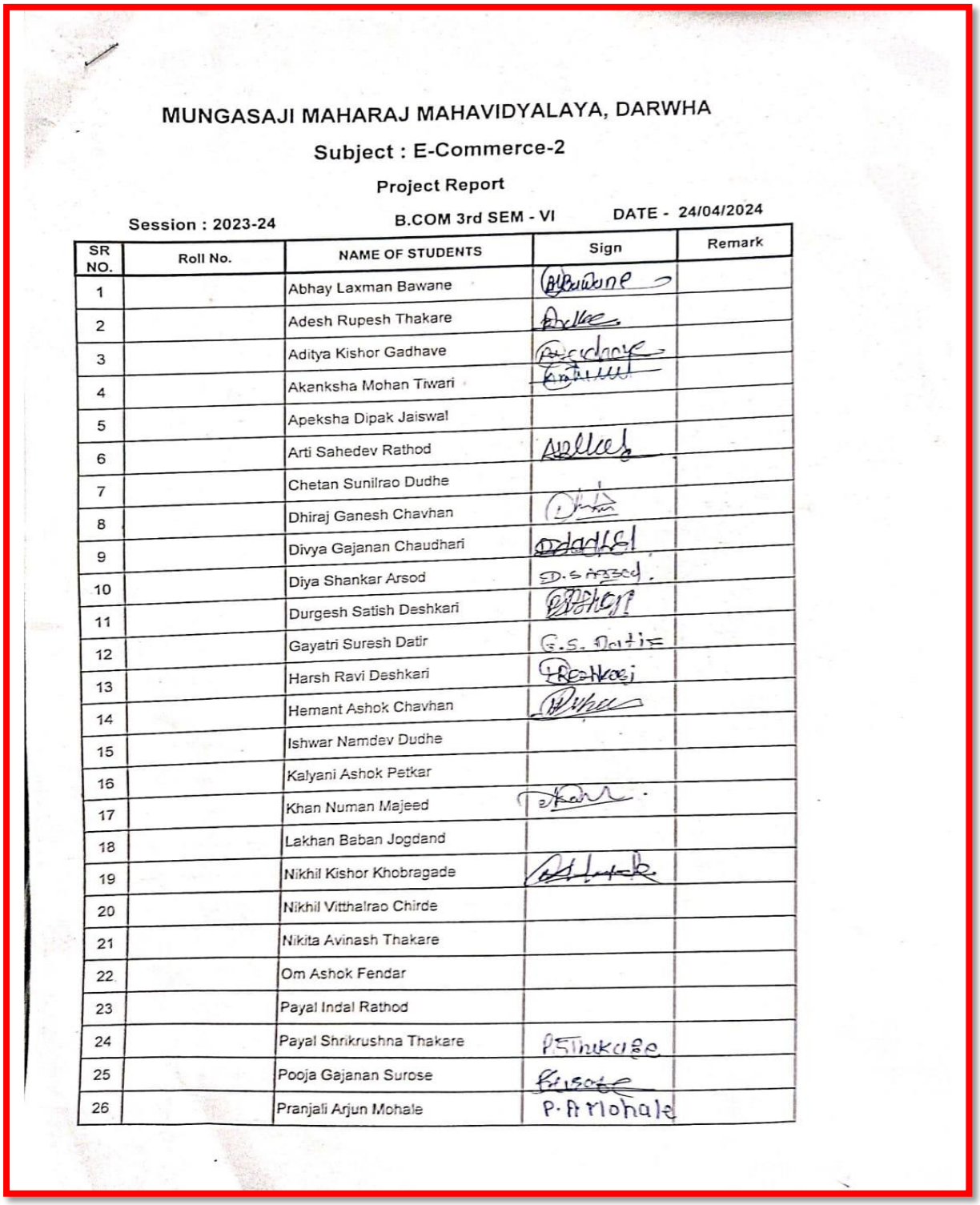
MUNGASAJI MAHARAJ MAHAVIDYALAYA, DARWHA

2023-2024

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences



MUNGASAJI MAHARAJ MAHAVIDYALAYA, DARWHA

Subject : E-Commerce-2

Project Report

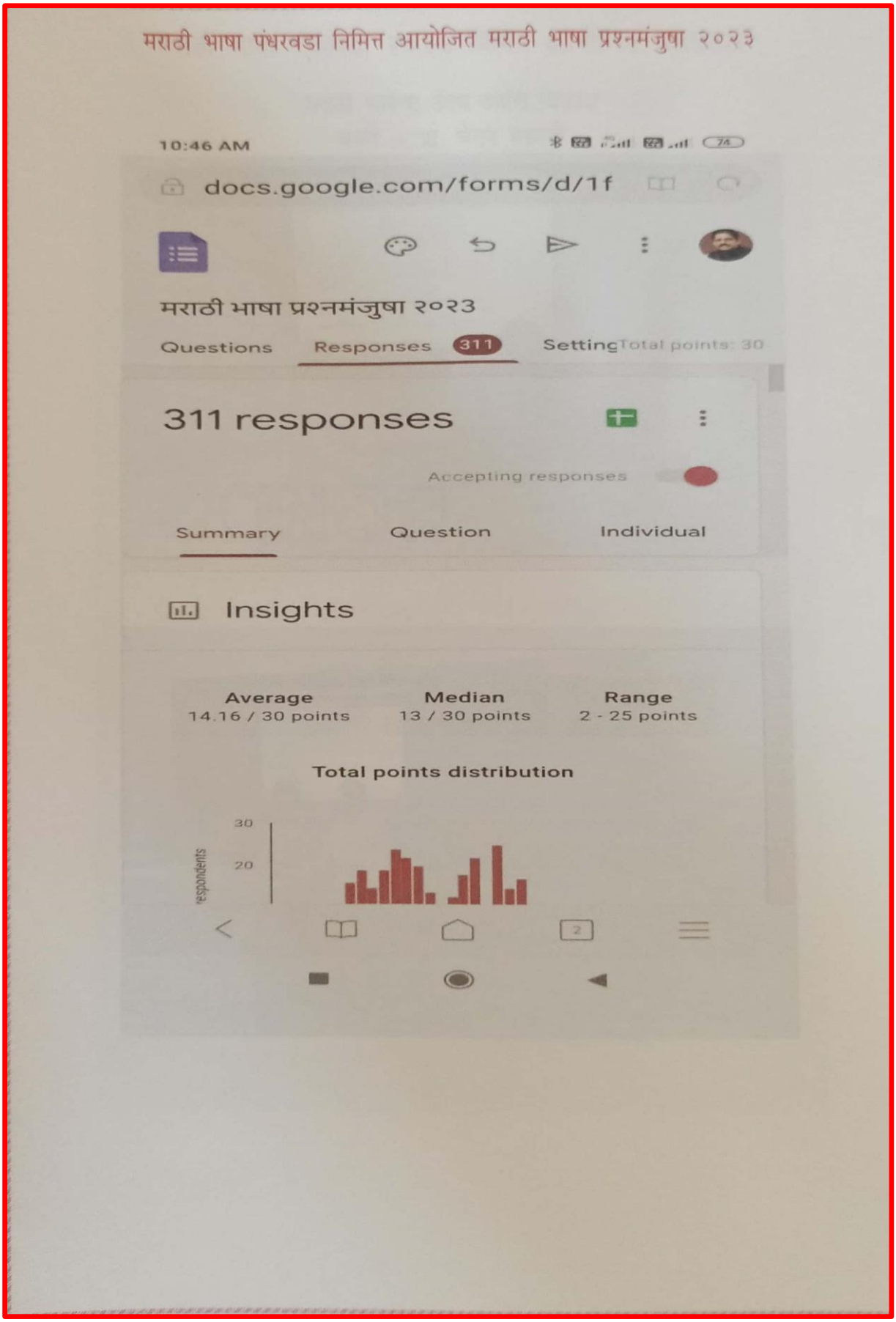
Session : 2023-24 B.COM 3rd SEM - VI DATE - 24/04/2024

SR NO.	Roll No.	NAME OF STUDENTS	Sign	Remark
1		Abhay Laxman Bawane		
2		Adesh Rupesh Thakare		
3		Aditya Kishor Gadhave		
4		Akanksha Mohan Tiwari		
5		Apeksha Dipak Jaiswal		
6		Arti Sahedev Rathod		
7		Chetan Sunilrao Dudhe		
8		Dhiraj Ganesh Chavhan		
9		Divya Gajanan Chaudhari		
10		Diya Shankar Arsod	D.S Arsod.	
11		Durgesh Satish Deshkari		
12		Gayatri Suresh Datir	G.S. Datir	
13		Harsh Ravi Deshkari		
14		Hemant Ashok Chavhan		
15		Ishwar Namdev Dudhe		
16		Kalyani Ashok Petkar		
17		Khan Numan Majeed		
18		Lakhan Baban Jogdand		
19		Nikhil Kishor Khobragade		
20		Nikhil Vitthalrao Chirde		
21		Nikita Avinash Thakare		
22		Om Ashok Fendar		
23		Payal Indal Rathod		
24		Payal Shrikrushna Thakare		
25		Pooja Gajanan Surose		
26		Pranjali Arjun Mohale	P.A Mohale	

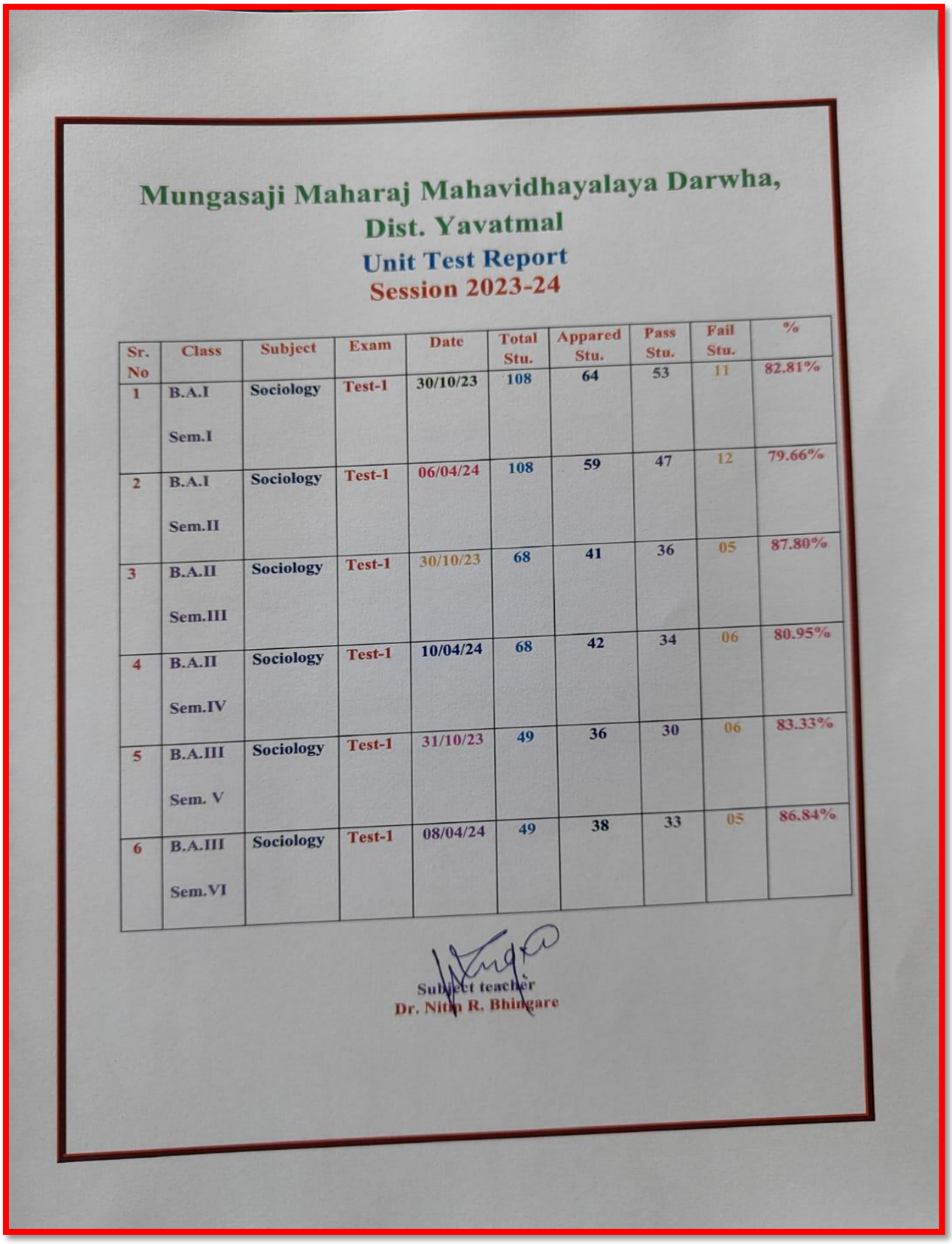
27		Pratik Omprakash Sharma	P.O. Sharma	
SR NO.	Roll No.	NAME OF STUDENTS	Sign	Remark
28		Punam Bansilal Pawar		
29		Radha Haridas Chaudhari		
30		Rashmita Manohar Chirde		
31		Rohan Yogiraj Bande		
32		Rohit Kisan Tajne		
33		Ruchita Vilas Tayde	R. V. Tayde	
34		Rushikesh Manohar Kukade		
35		Sagar Jagdish Rathi		
36		Sakshi Ajabrao Mate		
37		Sakshi Ravindra Khode		
38		Samiksha Kishor Tajane		
39		Sanket Rajesh Tayade		
40		Sanskar Dhirajkumar Jaiswal		
41		Saurabh Nandkishor Rathi		
42		Shifa Saher Mirza Shafaqqat Baig		
43		Siddheshwari Subhash Kawale		
44		Sneha Sanjay Bhopale		
45		Tejas Shyam Matre		
46		Tejas Sunil Tayde		
47		Urvashi Omprakash Thakare	U.O. Thakare	
48		Vaibhav Ramesh Dhurat		
49		Vaishnavi Dnyaneshwar Thakare		
50		Vipul Babarao Rathod		

Incharge

Dr. M.N. Moharil



Quiz Report – Marathi Department



Mungasaji Maharaj Mahavidhayalaya Darwha, Dist. Yavatmal

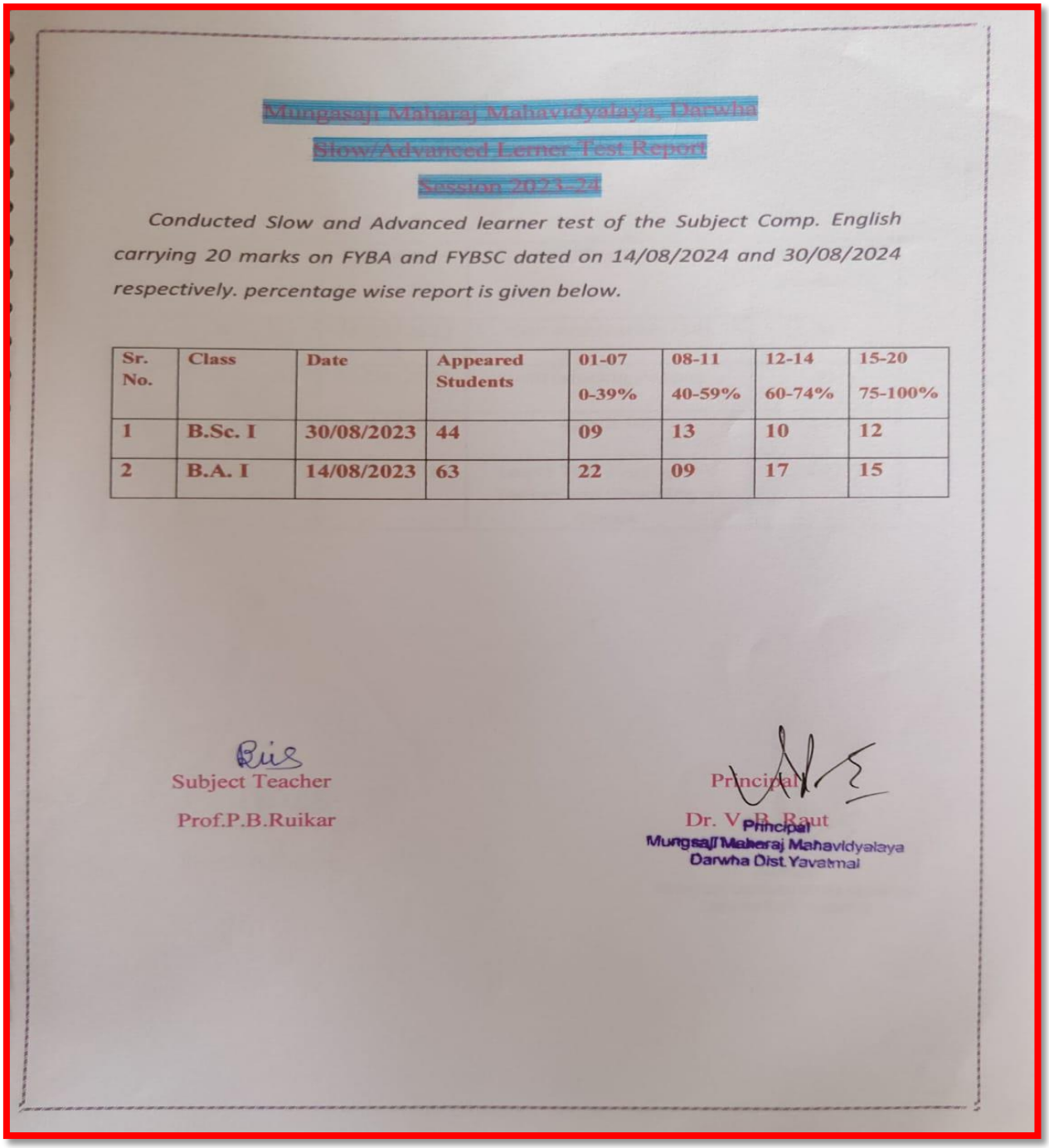
Unit Test Report

Session 2023-24

Sr. No	Class	Subject	Exam	Date	Total Stu.	Appared Stu.	Pass Stu.	Fail Stu.	%
1	B.A.I Sem.I	Sociology	Test-1	30/10/23	108	64	53	11	82.81%
2	B.A.I Sem.II	Sociology	Test-1	06/04/24	108	59	47	12	79.66%
3	B.A.II Sem.III	Sociology	Test-1	30/10/23	68	41	36	05	87.80%
4	B.A.II Sem.IV	Sociology	Test-1	10/04/24	68	42	34	06	80.95%
5	B.A.III Sem. V	Sociology	Test-1	31/10/23	49	36	30	06	83.33%
6	B.A.III Sem.VI	Sociology	Test-1	08/04/24	49	38	33	05	86.84%

Subject teacher
Dr. Nitin R. Bhingare

Unit Test Report – Sociology Department



Mungasaji Maharaj Mahavidyalaya, Darwha

Slow/Advanced Lerner Test Report

Session 2023-24

Conducted Slow and Advanced learner test of the Subject Comp. English carrying 20 marks on FYBA and FYBSC dated on 14/08/2024 and 30/08/2024 respectively. percentage wise report is given below.

Sr. No.	Class	Date	Appeared Students	01-07 0-39%	08-11 40-59%	12-14 60-74%	15-20 75-100%
1	B.Sc. I	30/08/2023	44	09	13	10	12
2	B.A. I	14/08/2023	63	22	09	17	15

Subject Teacher

Prof.P.B.Ruikar

Principal

Dr. V. B. Raut

Principal
Mungsaji Maharaj Mahavidyalaya
Darwha Dist.Yavatmal

Slow/Advance Learner Test Report – English Department

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Intercollegiate AAVISHKAR Research Convention

"AAVISHKAR - 2023"

Amolakchand Mahavidyalaya, Yavatmal

Certificate

This is to certify that Mr./Miss./Dr. Shivaji R. Rathod

of (College/Institution) M. M. Mahavidyalaya Darwa

has actively participated in "AAVISHKAR - 2023" at Yavatmal District Level

in the category of HLF/CML/PS/AAH/ET/MP at UG/PG/PPG level organised by

Aavishkar Cell, Sant Gadge Baba Amravati University, Amravati and hosted by

Amolakchand Mahavidyalaya, Yavatmal on 22nd December 2023

He/She stood – in the category –

Date : 22/12/2023

Dr. R. A. Mishra
Principal,
Amolakchand Mahavidyalaya, Yavatmal

Dr. A. B. Lad
Co-ordinator
AAVISHKAR - 2023

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Intercollegiate AAVISHKAR Research Convention

"AAVISHKAR - 2023"

Amolakchand Mahavidyalaya, Yavatmal

Certificate

This is to certify that Mr./Miss./Dr. Goyam Jadhao

of (College/Institution) M.M. Mahavidyalaya Darwha

has actively participated in "AAVISHKAR - 2023" at Yavatmal District Level

in the category of HLF/CML/PS/AAH/ET/MP at UG/PG/PPG level organised by

Aavishkar Cell, Sant Gadge Baba Amravati University, Amravati and hosted by

Amolakchand Mahavidyalaya, Yavatmal on 22nd December 2023

He/She stood – in the category –

Date : 22/12/2023

Dr. R. A. Mishra
Principal,
Amolakchand Mahavidyalaya, Yavatmal

Dr. A. B. Lad
Co-ordinator
AAVISHKAR - 2023

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Intercollegiate AAVISHKAR Research Convention

"AAVISHKAR - 2023"

Amolakchand Mahavidyalaya, Yavatmal

Certificate

This is to certify that Mr./Miss./Dr. Rutika Ughade

of (College/Institution) M.M. Mahavidyalaya, Darwha.

has actively participated in "AAVISHKAR - 2023" at Yavatmal District Level in the category of HLF/CML/PS/AAH/ET/MP at UG/PG/PPG level organised by Aavishkar Cell, Sant Gadge Baba Amravati University, Amravati and hosted by Amolakchand Mahavidyalaya, Yavatmal on 22nd December 2023

He/She stood - in the category -

Date : 22/12/2023

Dr. R. A. Mishra
Principal,
Amolakchand Mahavidyalaya, Yavatmal

Dr. A. B. Lad
Co-ordinator
AAVISHKAR - 2023

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Intercollegiate AAVISHKAR Research Convention

"AAVISHKAR - 2023"

Amolakchand Mahavidyalaya, Yavatmal

Certificate

This is to certify that Mr./Miss./Dr. Rutika Ughade

of (College/Institution) M.M. Mahavidyalaya, Darwha.

has actively participated in "AAVISHKAR - 2023" at Yavatmal District Level in the category of HLF/CML/PS/AAH/ET/MP at UG/PG/PPG level organised by Aavishkar Cell, Sant Gadge Baba Amravati University, Amravati and hosted by Amolakchand Mahavidyalaya, Yavatmal on 22nd December 2023

He/She stood - in the category -

Date : 22/12/2023

Dr. R. A. Mishra
Principal,
Amolakchand Mahavidyalaya, Yavatmal

Dr. A. B. Lad
Co-ordinator
AAVISHKAR - 2023

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
Intercollegiate AAVISHKAR Research Convention
"AAVISHKAR - 2023"
Amolakchand Mahavidyalaya, Yavatmal

Certificate

This is to certify that Mr./Miss./Dr. Sonu Chavhan
of (College/Institution) M. M. College Darwha
has actively participated in "AAVISHKAR - 2023" at Yavatmal District Level
in the category of HLF/CML/PS/AAH/ET/MP at UG/PG/PPG level organised by
Aavishkar Cell, Sant Gadge Baba Amravati University, Amravati and hosted by
Amolakchand Mahavidyalaya, Yavatmal on 22nd December 2023
He/She stood – in the category –

Date : 22/12/2023

Dr. R. A. Mishra
Principal,
Amolakchand Mahavidyalaya, Yavatmal

Dr. A. B. Lad
Co-ordinator
AAVISHKAR - 2023

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
Intercollegiate AAVISHKAR Research Convention
"AAVISHKAR - 2023"
Amolakchand Mahavidyalaya, Yavatmal

Certificate

This is to certify that Mr./Miss./Dr. Mohini K. Rathod
of (College/Institution) M. M. Mahavidyalaya Darwa
has actively participated in "AAVISHKAR - 2023" at Yavatmal District Level
in the category of HLF/CML/PS/AAH/ET/MP at UG/PG/PPG level organised by
Aavishkar Cell, Sant Gadge Baba Amravati University, Amravati and hosted by
Amolakchand Mahavidyalaya, Yavatmal on 22nd December 2023
He/She stood – in the category –

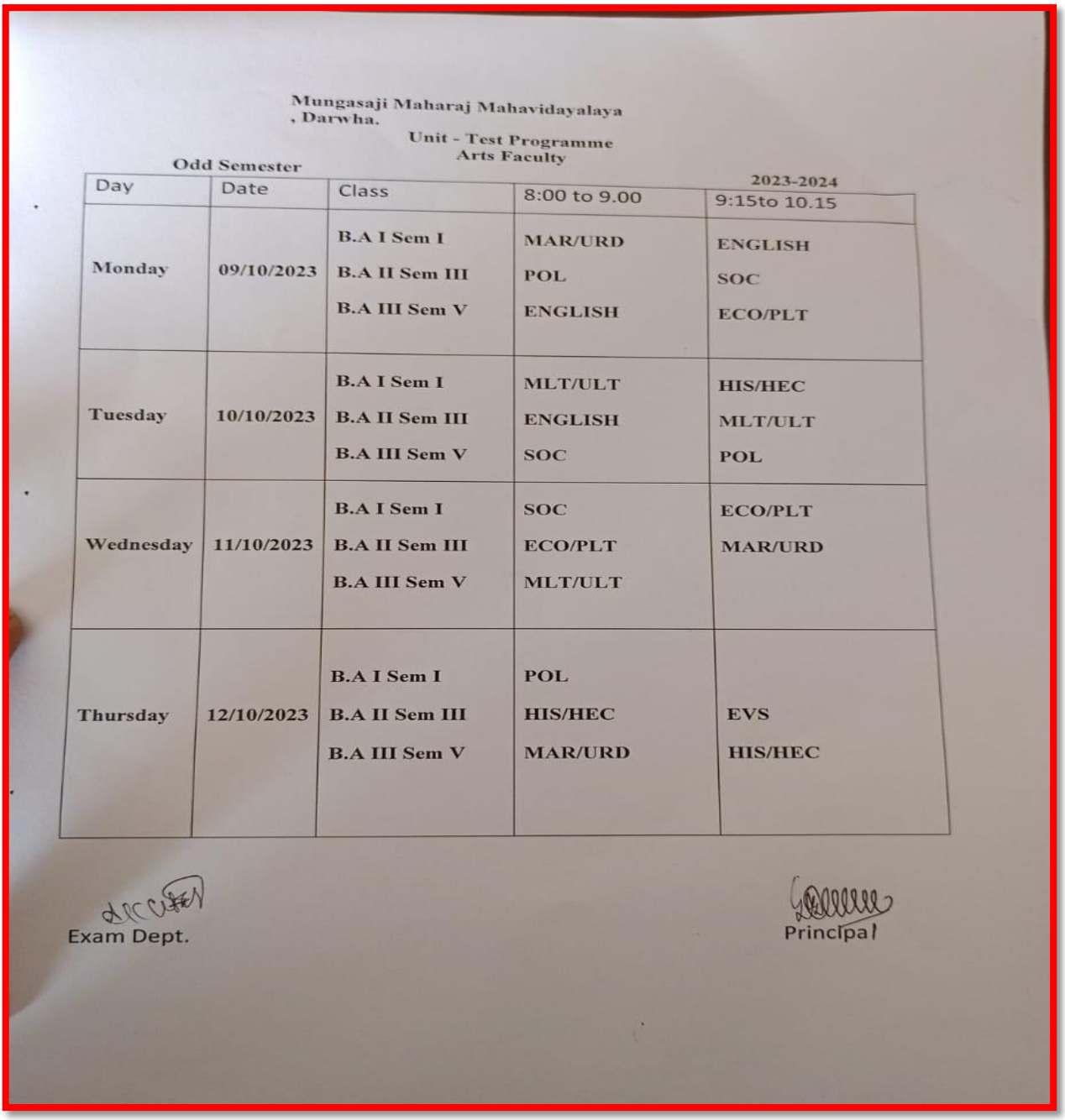
Date : 22/12/2023

Dr. R. A. Mishra
Principal,
Amolakchand Mahavidyalaya, Yavatmal

Dr. A. B. Lad
Co-ordinator
AAVISHKAR - 2023

Participation certificate in 'Aavishkar compaction'

Formation of study circle Sociology Department



Mungasaji Maharaj Mahavidayalaya
, Darwha.

Unit - Test Programme
Arts Faculty

Odd Semester 2023-2024

Day	Date	Class	8:00 to 9.00	9:15to 10.15
Monday	09/10/2023	B.A I Sem I B.A II Sem III B.A III Sem V	MAR/URD POL ENGLISH	ENGLISH SOC ECO/PLT
Tuesday	10/10/2023	B.A I Sem I B.A II Sem III B.A III Sem V	MLT/ULT ENGLISH SOC	HIS/HEC MLT/ULT POL
Wednesday	11/10/2023	B.A I Sem I B.A II Sem III B.A III Sem V	SOC ECO/PLT MLT/ULT	ECO/PLT MAR/URD
Thursday	12/10/2023	B.A I Sem I B.A II Sem III B.A III Sem V	POL HIS/HEC MAR/URD	EVS HIS/HEC

Exam Dept.

Principal

Time Table

MUNGASAJI MAHARAJ MAHAVIDYALAYA, DARWHA

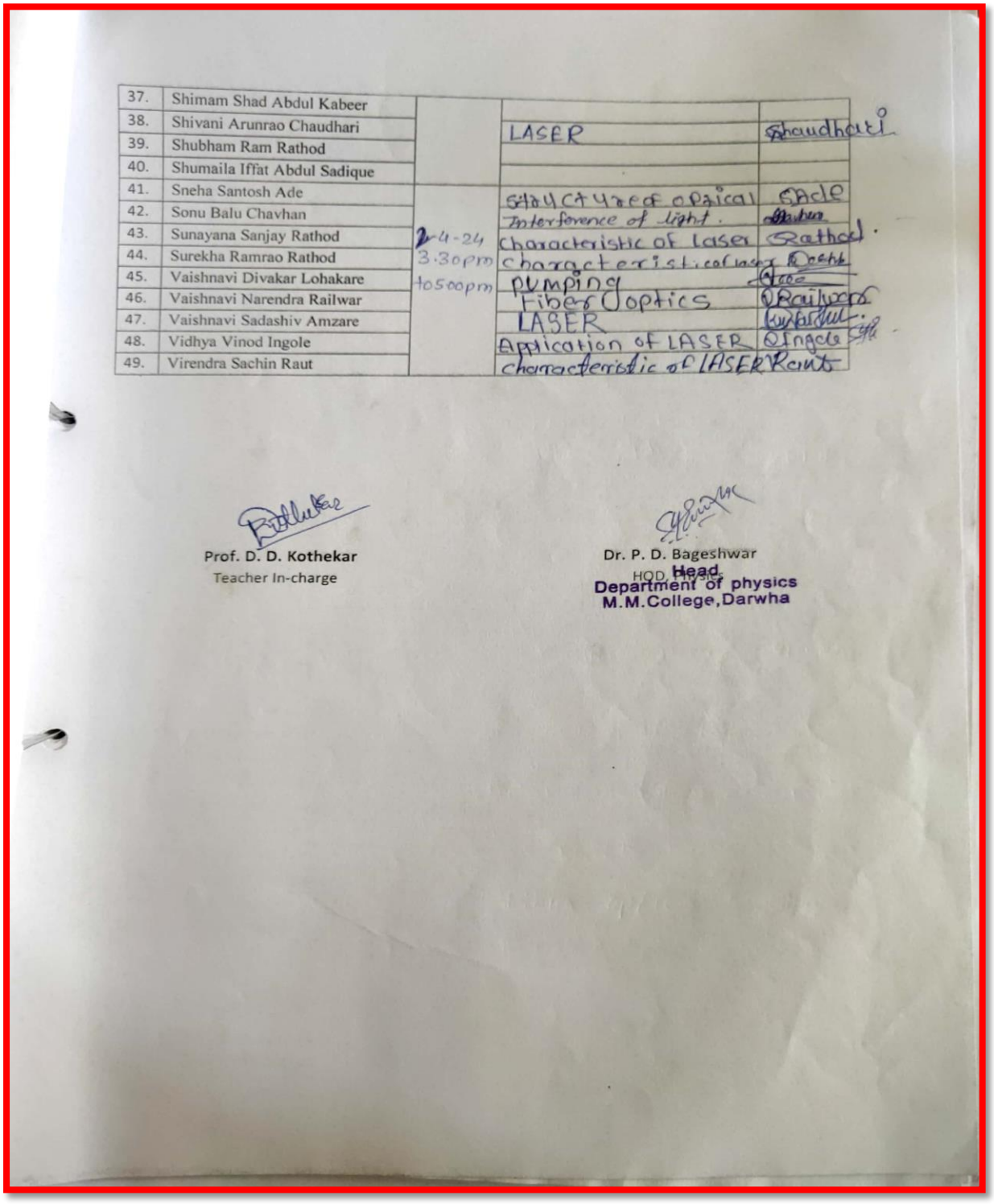
Department of Physics

Session 2023-24

Seminar Presentation

B. Sc. II Sem. IV

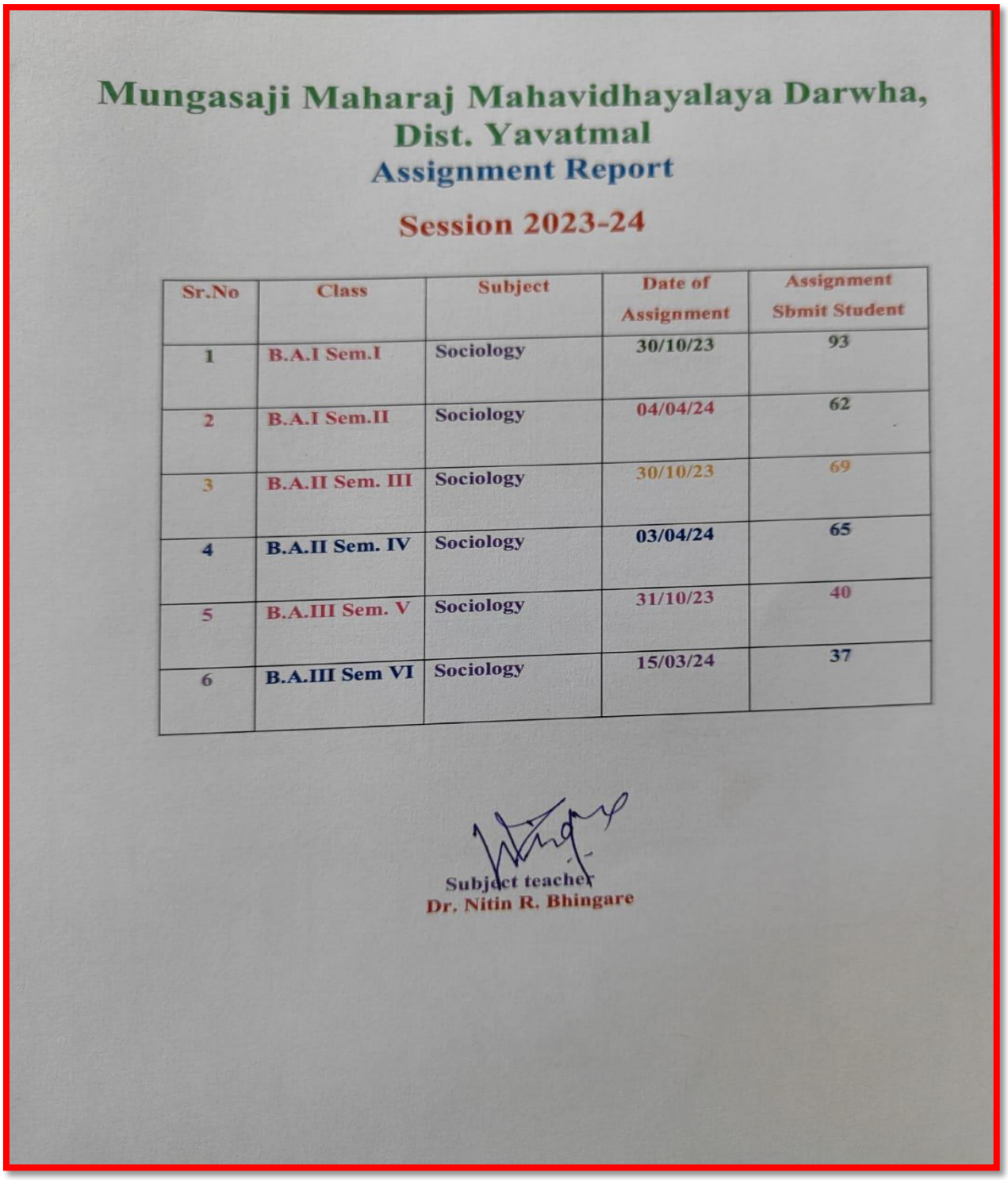
Sr. No.	Name of the Student	Date/ Time	Seminar Topic	Signature
1.	Aditya Vijay Kashyap	22-03-24 3.30 pm to 5.00pm	Streamline and Turbulent	
2.	Aishwarya Pramod Raut			
3.	Aishwarya Vinod Raut		Interference in thin film	Raut
4.	Akash Harlal Jadhao			
5.	Apsara Ganpat Manwar		Structure of optical fib	
6.	Arati Anil Pawar		Wedge shape thin air film	Pawar
7.	Chakuli Dinesh Bhande		Wedge Shaped thin film	Chakuli
8.	Gauri Vilas Kumare		working of Laser	Gukumare
9.	Gayatri Datta Sadafale		Characteristics of Laser	Sadafale
10.	Kalyani Gajanan Thakare		fibe E optics	Thakare
11.	Kiran Dhanraj Thakare	26-03-24 3.30 pm to 5.00pm	steytcure of optick fibee	Thakare
12.	Mahendra Vinod Pawar			
13.	Mohammad Siraj Nisar A. Qureshi		LASER	Siraj
14.	Mohan Anil Kavale		Fiber Optics Construction	Kavale
15.	Nandani Marotrao Vanve		Construction of Optical fiber	Vanve
16.	Om Rajesh Chirde			
17.	Palak Devba Sontakke		Pumping.	P. D. Sontakke
18.	Pooja Kailas Chavhan		LASER chara.	Chavhan
19.	Pooja Prakash Pawar		Interference of light	Phad
20.	Prajwal Sambhaji Dongare			
21.	Prachi Rajeshrao Gulhane	27-03-24 3.30 pm to 5.00pm	Application of LASER	Gulhane
22.	Pranali Nilkanth Mohod			
23.	Prerana Narayan Dudhe		structure of optical fiber	Dudhe
24.	Ranjana Gangaram Pawar		Helium Neon Laser	R Pawar
25.	Rida Fatema Sarfaraz Khan			
26.	Rutik Santoshrao Kale			
27.	Sakshi Dnyaneshwar Wankhade		characteristics Laser	S.D Wankh
28.	Sakshi Hanuman Shingade		LASER characteristics	Shingade
29.	Sakshi Harish Agham		Fiber optics	Agham
30.	Samiksha Vijay Aswar		I. Due to thin film	Aswar
31.	Sanika Ramesh Dudhe	28-03-24 3.30 pm to 5.00pm	Opercational amplifier	Dudhe
32.	Saniya Naaz Hussain Khan		characteristics of Laser	Saniya
33.	Saniya Parveen Shaikh Ayyub		Three lavel laser system	
34.	Saurabh Manohar Mulawat			
35.	Shahrukh Khan Hameed Khan			
36.	Shifa Saniya Asraroddin Quazi		Characteristics of laser	Shifa



37.	Shimam Shad Abdul Kabeer			
38.	Shivani Arunrao Chaudhari		LASER	Chaudhari
39.	Shubham Ram Rathod			
40.	Shumaila Iffat Abdul Sadique			
41.	Sneha Santosh Ade	24-24 3.30pm to 5.00pm	Study of use of optical	Ade
42.	Sonu Balu Chavhan		Interference of light.	
43.	Sunayana Sanjay Rathod		Characteristic of laser	Rathod.
44.	Surekha Ramrao Rathod		Characteristic of laser	
45.	Vaishnavi Divakar Lohakare		pumping	
46.	Vaishnavi Narendra Railwar		Fiber Optics	Railwar
47.	Vaishnavi Sadashiv Amzare		LASER	
48.	Vidhya Vinod Ingole		Application of LASER	Ingole
49.	Virendra Sachin Raut		characteristic of LASER	Raut

Prof. D. D. Kothekar
Teacher In-charge

Dr. P. D. Bageshwar
HOD, Physics
Head
Department of physics
M.M.College,Darwha



Mungasaji Maharaj Mahavidhayalaya Darwha, Dist. Yavatmal

Assignment Report

Session 2023-24

Sr.No	Class	Subject	Date of Assignment	Assignment Sbmit Student
1	B.A.I Sem.I	Sociology	30/10/23	93
2	B.A.I Sem.II	Sociology	04/04/24	62
3	B.A.II Sem. III	Sociology	30/10/23	69
4	B.A.II Sem. IV	Sociology	03/04/24	65
5	B.A.III Sem. V	Sociology	31/10/23	40
6	B.A.III Sem VI	Sociology	15/03/24	37

Subject teacher
Dr. Nitin R. Bhingare

Assignment Report – Sociology Department

Mungasaji Maharaj Mahavidhayalaya Darwha, Dist. Yavatmal

Power Point Presentation Report

Session 2023-24

Sr.No	Class	Subject	Date	Subject of PPT	Present Students	Absent Students
1	B.A.I Sem.I	Economics	10/08/23	On a one-sentence question on the first unit	65	24
			31/08/23	On a one-sentence question on the second unit	63	26
			16/09/23	On a one-sentence question on the third unit	64	25
			25/10/23	On a one-sentence question on the fourth unit	65	24
			02/11/23	On a one-sentence question on the fifth unit	62	27
2	B.A.II Sem. III	Economics	11/08/23	On a one-sentence question on the first unit	20	06
			29/08/23	On a one-sentence question on the second unit	21	05
			15/09/23	On a one-sentence question on the third unit	20	06
			16/10/23	On a one-sentence question on the fourth unit	19	07
			04/11/23	On a one-sentence question on the fifth unit	21	05
3	B.A.III Sem.V	Economics	08/08/23	On a one-sentence question on the first unit	15	02
			29/08/23	On a one-sentence question on the second unit	13	04
			11/09/23	On a one-sentence question on the third unit	12	05
			21/10/23	On a one-sentence question on the fourth unit	15	02
			01/11/23	On a one-sentence question on the fifth unit	12	05

Subject teacher
Dr. Shankar M. Sawant

1/5/24

14

PPT presentations – Economics Department

वसुंधरा वार्षिकांक २०२३

प्रकाशन सोहळा

भित्ती पत्रक १५ ऑगष्ट २०२३

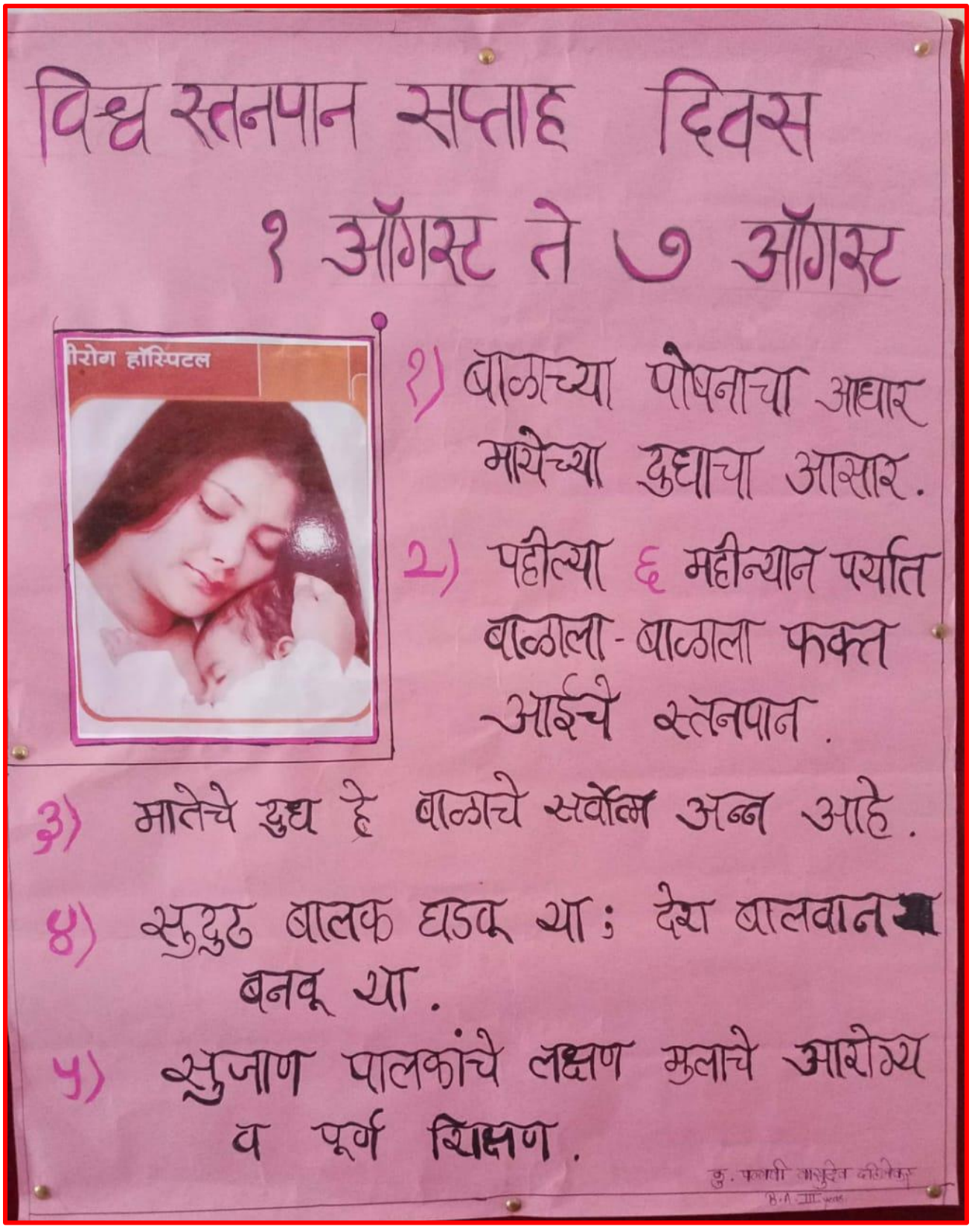
Annual Magazine & Wall paper by Marathi Department

चांगला आहार आणि चांगला
व्यवहार, हेच आहे प्रगतीचे
दोन आधार.

पोषक आहार देऊया ;
सुदृढ बालक बनवू या.

सुदृढ बालक घडवू या;
देश बलवान बनवू या.

नाव :- कु. पुजा विजय पिरुडे
नाव :- कु. रिना विनोद काळे
वर्ग :- अ.भा.



Wall paper by Home Economics Department

Study material

STUDY MATERIAL PROVIDED TO STUDENTS

Miss. Dhanshree Kothekar

Sr. No.	Subject	Topic	Class	Format of Material
1.	Physics	Elastictity	B. Sc. I	PPTs
2.	Physics	Solid State Devices I (MCQ Bank)	B. Sc. I	Word File
3.	Physics	Practical Manual	B. Sc. I	Word File
4.	Physics	Question Papers of Previous Years	B. Sc. I	PDFs
5.	Physics	Diffraction	B. Sc. II	PDF Notes
6.	Physics	Interference	B. Sc. II	PDF Notes
7.	Physics	Polarization	B. Sc. II	PDF Notes (Hand Written)
8.	Physics	Semiconductor (MCQ Bank)	B. Sc. II	Word File
9.	Physics	Question Papers of Previous Years	B. Sc. II	PDFs
10.	Physics	Practical Manual	B. Sc. II	Word File
11.	Physics	Crystallography	B. Sc. III	PPTs
12.	Physics	Kerr Effect	B. Sc. III	PPTs
13.	Physics	Atomic Spectroscopy (MCQ Bank)	B. Sc. III	Word File
14.	Physics	Question Papers of Previous Years	B. Sc. III	PDFs
15.	Physics	Practical Manual	B. Sc. III	Word File
16.	Mathematical Physics	Mathematical Physics by H. K. Dass	M. Sc. I	e-book
17.	Classical Mechanics	Classical Mechanics by Goldstein	M. Sc. I	e-book
18.	Quantum Mechanics	Quantum Mechanics : Concepts and Applications By Ismes	M. Sc. I	e-book
20.	Solid State Physics	Introduction to Dislocations by Bacon and Hull MCQ Bank	M. Sc. I	e-book
21.	Nuclear Physics		M. Sc. II	Word File
22.	Atomic and Molecular Spectroscopy	Atomic and Molecular Spectroscopy by Rajaram	M. Sc. II	e-book

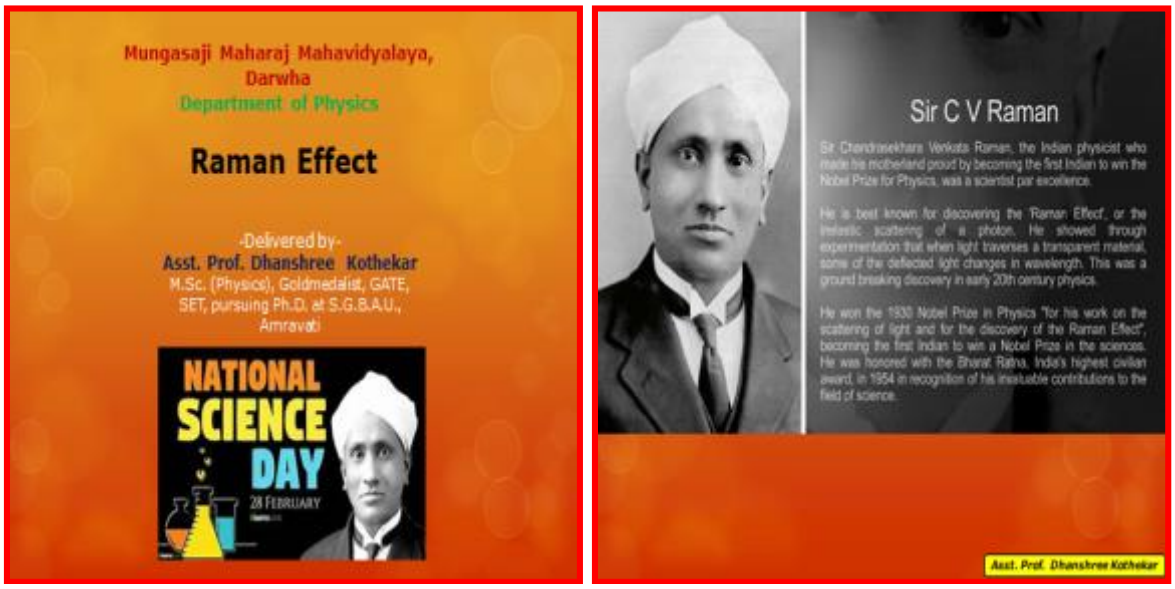
Study material provided by Asstt. Prof. Miss Kothekar

E-Study material provided in the form of CD's

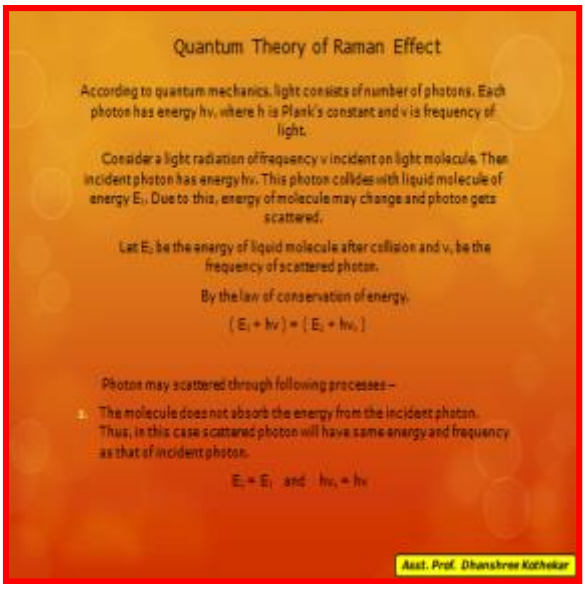
E-Study material provided in the form of CD's

E-Study material provided in the form of CD's

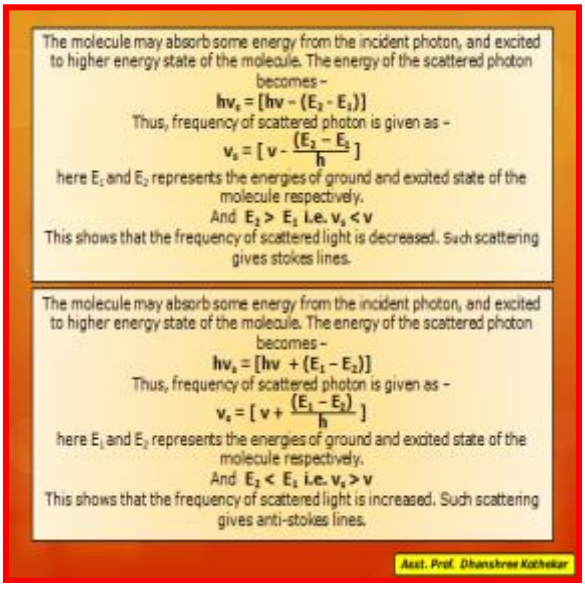
E-Study material provided in the form of CD's

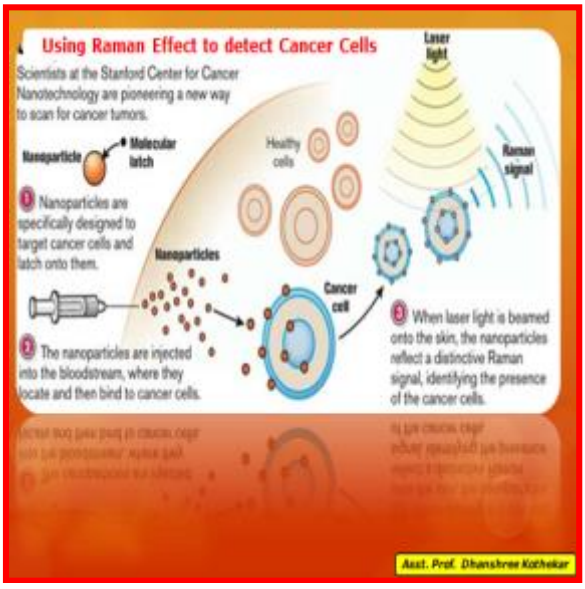


PPT study material on 'Raman Effect' by Department of Physics



PPT study material on 'Raman Effect'by Department of Physics

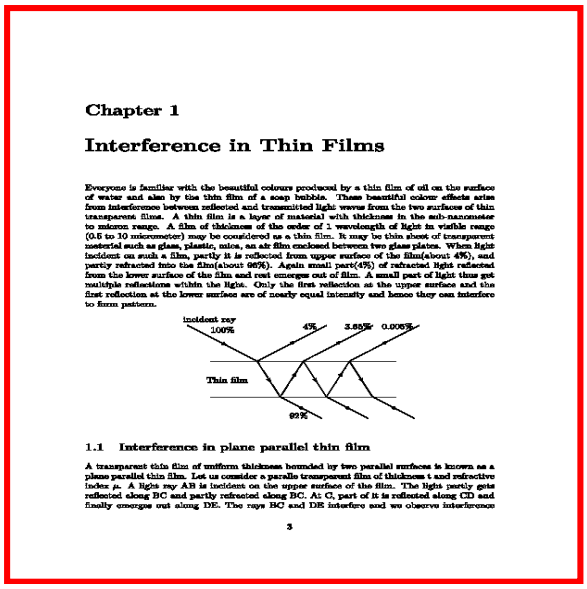




PPT study material on 'Raman Effect' by Department of Physics

Contents

2



Chapter 1

Interference in Thin Films

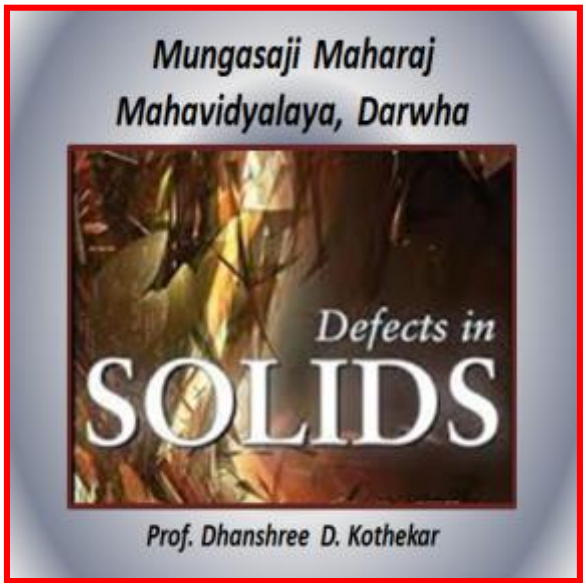
Everyone is familiar with the beautiful colours produced by a thin film of oil on the surface of water and also by the thin film of a soap bubble. These beautiful colour effects arise from interference between reflected and transmitted light waves from the two surfaces of thin transparent films. A thin film is a layer of material with thickness in the sub-nanometer to micron range. A film of thickness of the order of 1 wavelength of light in visible range (0.5 to 10 micrometer) may be considered as a thin film. It may be thin sheet of transparent material such as glass, plastic, mica, an air film enclosed between two glass plates. When light Incident on such a film, partly it is reflected from upper surface of the film(about 4%), and partly refracted into the film(about 96%). Again small part(4%) of refracted light reflected from the lower surface of the film and rest emerges out of film. A small part of light thus get multiple reflections within the light. Only the first reflection at the upper surface and the first reflection at the lower surface are of nearly equal intensity and hence they can interfere to form pattern.

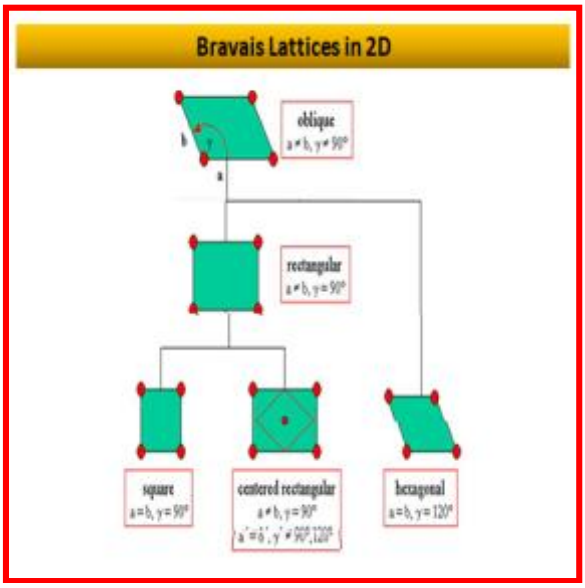
1.1 Interference in plane parallel thin film

A transparent thin film of uniform thickness bounded by two parallel surfaces is known as a plane parallel thin film. Let us consider a parallel transparent film of thickness t and refractive index μ. A light ray AB is incident on the upper surface of the film. The light partly gets reflected along BC and partly refracted along BC. At C, part of it is reflected along CD and finally emerges out along DE. The rays BC and DE interfere and we observe interference

3

Study Material on 'Thin Films' by Department of Physics





Study Material on Defects in Solids by Department of Physics

Department of Physics

Semiconductors

1. There is a ..... energy gap between conduction band and valance band.
a. Forbidden b. More c. Infinite d. Zero

2. The covalent bonds in semiconductors are formed due to ..... of electrons.
a. Donation b. Sharing c. Acceptance d. None

3. Majority charge carriers in p-type semiconductor are .....
a. Electrons b. Holes c. Both d. None

4. Pure semiconductor is also called as .....
a. Extrinsic b. N-type c. Intrinsic d. P-type

5. Germanium atom has atomic number .....
a. 14 b. 10 c. 32 d. 0

6. ..... are the minority charge carriers in N-type semiconductor.
a. Electrons b. Holes c. Both d. None

7. Depletion region contains .....
a. Free electrons b. Holes c. Immobile ions d. None of these

8. When Silicon atom doped with the pentavalent impurity, it becomes ..... semiconductor.

Old question papers of University

a. P- type b. N-type c. Intrinsic d. None

9. In intrinsic semiconductor, the number of free electrons, in conduction band is ..... number of holes in valance band.
a. More b. Less c. Equal d. None

10. In forward bias condition, p-n junction offers .....
a. High resistance b. Low resistance c. Zero resistance d. High or low resistance

11. Semiconductor materials have .....
a. Covalent bonds b. Ionic bond c. Pie bond d. None

12. Mobility is a function of .....
a. Applied electric field only b. Temperature only
c. Applied electric field and temperature d. None of these

13. S. I. Unit of conductivity is .....
a. ohm. cm b. ohm. meter c. ohm^{-1}. cm^{-1} d. ohm^{-1}. $meter^{-1}$

14. The thickness of depletion region depends on .....
a. Type of semiconductor b. Doping level
c. Conductivity d. Mobility

15. The barrier potential for silicon semiconductor is .....
a. 0.7 eV b. 1.1 eV c. 2 eV d. Zero

MCQ's question bank for practice

Department of Physics

Atomic Spectroscopy

1. Space quantization and spinning of electron are the important features of .....
a. Rutherford Atomic Model b. Bohr Atomic Model
c. Vector Atomic Model d. None

2. According to space quantization, electron orbits are .....
a. Quantized b. Splitted c. Not restricted d. None

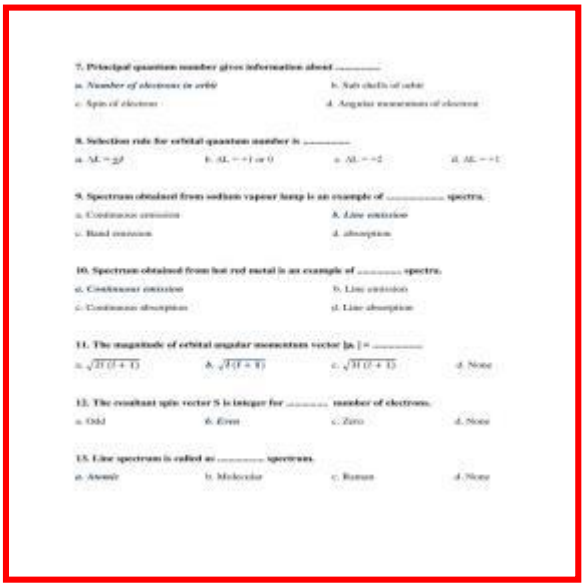
3. For a system of two electrons with anti- parallel spin, spin quantum number is .....
a. 1 b. Zero c. 1/2 d. -1/2

4. Selection rule for total angular quantum number J is .....
a. $\Delta J = \pm 1$ b. $\Delta J = 0$ c. $\Delta J = 1/2$ d. None

5. ..... Coupling is frequently used in light atoms.
a. j - j b. L-S c. Both j - j and L-S d. None

6. According to Vector Atom Model, electron orbits are quantized in .....
a. Magnitude only b. Direction only
c. Both magnitude and direction d. None of these

MCQ's question bank for practice



7. Principal quantum number gives information about .....
a. Number of electrons in orbit b. Sub shells of orbit
c. Spin of electron d. Angular momentum of electron

8. Selection rule for orbital quantum number is .....
a. $\Delta L = \pm 1$ b. $\Delta L = +1$ or 0 c. $\Delta L = +2$ d. $\Delta L = +1$

9. Spectrum obtained from sodium vapour lamp is an example of ..... spectra.
a. Continuous emission b. Line emission
c. Band emission d. absorption

10. Spectrum obtained from hot red metal is an example of ..... spectra.
a. Continuous emission b. Line emission
c. Continuous absorption d. Line absorption

11. The magnitude of orbital angular momentum vector $|\mu_l| =$ .....
a. $\sqrt{l(l+1)}$ b. $\sqrt{l(l+1)}$ c. $\sqrt{l(l+1)}$ d. None

12. The resultant spin vector S is integer for ..... number of electrons.
a. Odd b. Even c. Zero d. None

13. Line spectrum is called as ..... spectrum.
a. Atomic b. Molecular c. Raman d. None

MCQ's question bank for practice

14. Principal quantum number determines the size of .....
a. Electrons b. Electron orbit c. Nucleus d. Protons

15. In case of j - j coupling scheme J = ...
a. $j_1+j_2+j_3$ b. $j_1+j_2+j_3$ c. $l+s$ d. L+S

16. For a given value of l, total values of m_l are .....
a. 2l b. 2l + 1 c. l d. l + 1

17. Orbital quantum number determines the ..... of electron orbit.
a. Energy b. Size c. Shape d. Spin

18. Small letters like s, p, d, f and l, s, j are used to describe the state of .....
a. Electron b. Atom c. Molecule d. Ion

19. In case of L-S coupling J = ...
a. $l_1 + l_2 + l_3$ b. $s_1 + s_2 + s_3$ c. $l + s$ d. L + S

20. Capital letters like S, P, D, F and L, S, J are used to describe the state of .....
a. Electron b. Atom c. Molecule d. Ion

MCQ's question bank for practice

MCQ Bank

Solid State Devices - I

B. Sc. II Sem. III

1. There is a ..... energy gap between conduction band and valance band.
a. Forbidden b. Less c. Infinite d. Zero

2. The covalent bonds in semiconductors are formed due to ..... of electrons.
a. Donation b. Sharing c. Acceptance d. None of these

3. Majority charge carriers in p-type semiconductor are .....
a. Electrons b. Holes c. Both d. None of these

4. Pure semiconductor is also called as .....
a. P-type b. N-type c. Intrinsic d. Extrinsic

5. Germanium atom has atomic number .....
a. 14 b. 10 c. 32 d. zero

6. ..... are the minority charge carriers in N-type semiconductor.
a. Electrons b. Holes c. Both d. None of these

7. Depletion region contains .....
a. Free electrons b. Holes c. Immobile ions d. None of these

8. When Silicon atom doped with the pentavalent impurity, it becomes ..... semiconductor.
a. P-type b. N-type c. Intrinsic d. None of these

9. In intrinsic semiconductor, the number of free electrons, in conduction band is ..... number of holes in valance band.
a. More b. Less c. Equal d. Not equal

10. In forward bias condition, p-n junction offers .....
a. High resistance b. Low resistance c. Zero resistance d. None of these

11. Semiconductor materials have ..... bonds.
a. Covalent b. Ionic c. Pie d. Metallic

MCQ's question bank for practice

12. Mobility is a function of .....
a. Applied electric field only b. Applied electric field and temperature
c. Temperature only d. None

13. S. I. Unit of conductivity is .....
a. ohm. cm b. ohm. meter c. ohm^{-1}. cm^{-1} d. ohm^{-1}. $meter^{-1}$

14. The thickness of depletion region depends on .....
a. Type of semiconductor b. Conductivity
c. Doping level d. Mobility

15. The barrier potential for silicon semiconductor is .....
a. 0.7 eV b. 1.1 eV c. 2 eV d. zero

16. A forward bias p-n diode has a resistance of the order of .....
a. ohm b. kilo ohm c. mega ohm d. None

17. A reverse bias p-n junction has .....
a. Very narrow depletion region b. Almost no current
c. Very low resistance d. Large current flow

18. With forward bias to a p-n junction, width of depletion layer .....
a. Increases b. Decreases c. Remains same d. None of the above

19. Electrical conductivity of semiconductor is .....
a. Decreases with rise in temperature
b. Does not change with the rise in temperature
c. Increases with rise in temperature
d. First increases and then decreases with the rise in temperature

20. Three semiconductors are arranged in the increasing order of their energy gaps as follows. The CORRECT arrangement is –
a. Tellurium, Silicon, Germanium b. Silicon, Germanium, Tellurium
c. Tellurium, Germanium, Silicon d. Silicon, Tellurium, Germanium

21. In an insulator, the forbidden energy gap between valance band and conduction band is of the order of .....
a. 1 eV b. 5 eV c. 0.1 MeV d. 1 MeV

MCQ's question bank for practice

22. Forbidden energy band gap of Silicon is .....
a. 0.7 eV b. Between 2eV and 3eV c. 1.1 eV d. 5 eV

23. Varactor diode is NOT used in .....
a. Frequency multipliers b. Operational amplifiers
c. Parametric amplifiers d. Voltage controlled oscillators

24. LED is operated in ..... mode.
a. Reverse bias b. Conduction c. Forward bias d. None of these

25. Hall coefficient have ..... value for n-type semiconductors.
a. Positive b. Negative c. Zero d. None

26. Whether the semiconductor is n-type or p-type can be confirmed with the help of .....
a. Hall effect b. LED c. Varactor diode d. None

27. Electron mobility is inversely proportional to .....
a. Applied electric field b. Conductivity of electron
c. Drift velocity of electron d. None of above

28. Fermi level in p-type semiconductor is located .....
a. Near the bottom of the conduction band b. Near the top of the conduction band
c. Near the bottom of the valance band d. Near the top of the valence band

29. For p-type semiconductor, the formula to calculate the Hall coefficient is .....
a. $H = n / p$ b. $R = -1 / pe$ c. $R = 1/ pe$ d. $R = pe$

30. LED has the advantage .....
a. It operates very fast b. It is so difficult to handle
c. It requires very large energy for operation d. It is very costly

MCQ's question bank for practice

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Mungasaji Maharaj Mahavidhayalaya Darwha, Dist. Yavatmal

Group Discussion Report

Session 2023-24

Sr. No	Class	Subject	Date	Subject	Present Student	Absent Students
1	B.A.I Sem. I	Economics	24/08/23	NEP Advantage & Dis advantage	65	24
			06/10/23	Privatization Advantage disadvantage	70	19
2	B.A.I Sem. II	Economics	13/02/24	Role of Start- up India in Employment	59	11
			26/03/24	2024 -25 Budget	62	08
3	B.A.II Sem. III	Economics	25/08/23	NEP Advantage & Dis advantage	20	06
			07/10/23	Privatization Advantage disadvantage	22	04
4	B.A.II Sem. IV	Economics	13/02/24	Role of Start- up India in Employment	20	06
			22/03/24	2024 -25 Budget	19	07
5	B.A.III Sem. V	Economics	26/08/23	NEP Advantage & Dis advantage	15	02
			04/10/23	Privatization Advantage disadvantage	13	04
6	B.A.III Sem. VI	Economics	13/02/24	Role of Start- up India in Employment	15	02
			20/03/24	2024 -25 Budget	12	05

Mungasaji Maharaj Mahavidhayalaya Darwha, Dist. Yavatmal

Lectures Report

Session 2023-24

Sr.N	Class	Subject	June	Jully	August	September	October	November	December	January	February	March	April	May	Total
1	B.A.I	Economics	Nil	08	21	19	19	05	02	17	21	17	12	Nil	141
2	B.A.II	Economics	Nil	10	20	20	19	05	Nil	12	19	19	12	Nil	136
3	B.A.III	Economics	Nil	09	21	20	19	05	Nil	15	20	16	12	Nil	137
Total			Nil	27	62	59	57	15	02	44	60	52	36	Nil	414

11/5/24

Subject teacher
Dr. Shankar M. Sawant

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Group Discussion Report – Sociology Department

Seal

Principal
Mungasaji Maharaj Mahavidyalay
Darwha Dist.Yavatmal