

Shri Shivaji Mahavidyalaya, Barshi
Department of Physics
Internal Examination -2022 (Sam.- II)
Class – B.Sc- I Physics Paper – III (Heat and Thermodynamics)

Time – 1 hour

Date - 27/5/2022

Marks – 10

Q.1 Select the correct alternative from the following

5

i) Viscosity of a gas is due to transport of _____

- a) momentum b) energy
 c) mass d) none of these

ii) As the temperature of a gas increases, mean free path of gas molecules _____

- a) decrease b) remains constant
 c) increases d) none of these

iii) Heat conductivity of liquid helium II is _____

- a) high b) low
 c) very low d) zero

iv) In Joule-Thomson porous plug experiment, all the gases showed cooling effect except _____

- a) hydrogen b) nitrogen c) oxygen d) carbon dioxide

v) Transport of _____ gives rise to the phenomenon of thermal conductivity of a gas.

- a) mass b) energy c) momentum d) velocity

Q.2 Attempt any two

5

1. Obtain an expression for coefficient of thermal conductivity of a gas.
2. Describe liquefaction of gas by Joule-Thomson effect.
3. Discuss any two properties of liquid He II.

Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi.

College of Internal Examination 20 -20

Date : 27 / 05 / 2022

Time :

Class : .. B.Sc.I

Subject : .. Physics

Paper No. : III Heat & Thermo-
dynamics

Semester : .. II

Sr.No.	Roll Number	Full Name of the Student	Signature
1	1220	Damodare Reuli Namd kishor	Reuli
2	1277	More Rutuja Rajendra	Rutuja
3	1229	Kale Vidya Dattateay	Kale.V.D.
4	1259	Kale Nikita Navnath	Nike
5	1246	Agalare shital Balaji	Agalare S
6	1265	Waghmare Ankita Nanasahab	Ankita
7	1249	Baber Aishwarya yuvraj	Baber
8	1014	Mali Ansha Bharat	Ansha
9	1303	Doifode shweta sambhaji	S.S.Doifode.
10	1313	Yadav Priti Umesh	Yadav P
11	1306	Manjare shweta Ravindra	Manjare
12	1201	Tamboli Sohel Mohammad	Tamboli
13	1252	Deshmukh kreshna dhendektra	
14	1267	kusalkar Akash Nanasahab	ku.
15	1011	Andhare Rohit Bibhishan	Rohit
16	1232	Maske Sandesh Sanjay	S.maske
17	1015	Pachure Abhijeet vikram	Abhijeet
18	1233	Mukate Kalpak Ravindra	Kalpak
19	1224	Giri suraj mahadev	Giri
20	1287	Surwase vaishnavi Rajendra	V.R.S.
21	1275	Jagtap Namrata Ravindra	Jagtap N.R.
22			
23			
24			
25			

Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi.

College of Internal Examination 20 -20

Date : 27 / 05 / 2022

Time :

Class :: B.Sc. - I

Subject : ..phys.ics.....

Paper No. : III : Heat and thermodynamics Semester : B.Sc. I (Sem II)

Sr.No.	Roll Number	Full Name of the Student	Signature
1	1240	Thakur Om Sunil sing	<u>Omthakur</u>
2	1254	Gaikwad Dnyaneshwar Sharda	<u>D.S Gaikwad</u>
3	1216	Bagal Tukaram Ankuish	<u>Bagal Ankuish</u>
4	1274	Yadav Aniket Anil	<u>Aniket Yadav</u>
5	1304	Kulkarni Sourabh Suresh	<u>S.Kulkarni</u>
6	1234	Padule Gokul Jagannath	<u>Gokul P.</u>
7	1268	Mundhe Ashish Shamrao	<u>A.Mundhe</u>
8	1236	Pawar Shivaji Bhausaheb	<u>Shivaji Pawar</u>
9	1276	Khairi Sarthak Balaji	<u>Sarthak Khairi</u>
10	1241	Vasekar Vaibhav Kisom	<u>Vaibhav Vasekar</u>
11	1266	Kushade Rohidas Ramling	<u>Rohidas Kushade</u>
12	1271	Satpute Pradumn Pandurang	<u>Pradumn Satpute</u>
13	1247	Aher Amal Vaman	<u>Amal Aher</u>
14	1237	Sabale Siddhivinayak Hanumant	<u>Sabale</u>
15			
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Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi.

College of Internal Examination 20 -20

Date : 27/05/2012

Time :

Class :: B.S.C.I

Subject : Physics

Paper No. : III H.C.A.T. 4.

Semester : II (B.S.C.I)

Thermodynamics

Sr.No.	Roll Number	Full Name of the Student	Signature
1	1308	Pathan sujan sadik	SS Pathan
2	1269	Patil Ishwari Sushil	I.S. Patil
3	1302	Chobe Pooja Hanumanant	Pooja H. Chobe
4	1272	shelke sujata Jambuvant	Shelke
5	1255	chemad Divya Laxman	D.L. chemad
6	1279	kande shweta Bharat	S. Kande
7	1262	Kayat Sanjana Papayya	Sanjana Kayat
8	1270	Raut Gitanjali Dhananjay	Raut
9	1305	Lokare kirti Suresh.	Lokare K.S.
10	1238	Shinde Aishwarya vilas	A.V. Shinde
11	1218	Bhise sneha Rajesh	Sneha
12	1317	Khure priti Kiran	Khure P.K.
13	1314	Khair Aishwarya Bhausaheb	A.B. Khair
14	1018	Gade Rutuja Ramdas	R.R. Gade
15	1310	Shinde Asmita Ambar	A. Shinde
16	1248	Andhaze Rohini Machhindra	Rohini
17	1312	Waghmare Pratiksha Sahebrao	P. Waghmare
18	1278	Dhavale Rohini Balaji	Rohini Dhavale
19	1260	Kale Shrushti Subhash	Shrushti Kale
20	1222	Gawali Vaibhavi Dattu	V. Gawali
21	1217	Bhatlawande shreutika. D.	S. Bhatlawande
22	1219	chandane Pratik Shamrao	P. Chandane
23	1264	Pandit Siddharth Bhagawat	S. Pandit
24	1273	Waghmare Ganesh Shamrao	G. Waghmare
25	1283	Kondhare Prasad Prashant	P. Kondhare

B.Sc. I Sem-II Paper-III (19201205) Theory(CA) Mar/Apr. - 2022

Sl. No.	Course Part	Course Term	Paper Code	Paper Name	Seat No	Pr n No	Student Name	Assessment Method	Assessment	Attendance	Assessment Marks
1	Bachelor	B.Sc(Ho)	19201205	Physics-III	2159	##	AGALAVE SHITAL BALAJI	Theory	CA	P	8
2	Bachelor	B.Sc(Ho)	19201205	Physics-III	2160	##	AHER AMAL VAMAN	Theory	CA	P	5
3	Bachelor	B.Sc(Ho)	19201205	Physics-III	2162	##	ANDHARE ROHINI MACHHINDRA	Theory	CA	P	7
4	Bachelor	B.Sc(Ho)	19201205	Physics-III	2163	##	ANDHARE ROHIT BIBHISHAN	Theory	CA	P	5
5	Bachelor	B.Sc(Ho)	19201205	Physics-III	2167	##	BABAR AISHWARYA YUVRAJ	Theory	CA	P	5
6	Bachelor	B.Sc(Ho)	19201205	Physics-III	2168	##	BAGAL TUKARAM ANKUSH	Theory	CA	P	6
7	Bachelor	B.Sc(Ho)	19201205	Physics-III	2178	##	BHATLAWANDE SHRUTIKA DAYANAND	Theory	CA	P	10
8	Bachelor	B.Sc(Ho)	19201205	Physics-III	2179	##	BHISE SNEHA RAJESH	Theory	CA	P	5
9	Bachelor	B.Sc(Ho)	19201205	Physics-III	2187	##	CHANDANE PRATIK SHAMRAO	Theory	CA	P	5
10	Bachelor	B.Sc(Ho)	19201205	Physics-III	2193	##	Chobe Pooja Hanumant	Theory	CA	P	8
11	Bachelor	B.Sc(Ho)	19201205	Physics-III	2196	##	DAMDADRE REVTI NANDKISHOR	Theory	CA	P	9
12	Bachelor	B.Sc(Ho)	19201205	Physics-III	2198	##	DESHMUKH KRISHNA DHIRODATTA	Theory	CA	P	8
13	Bachelor	B.Sc(Ho)	19201205	Physics-III	2200	##	DHAVAL ROHINI BALAJI	Theory	CA	P	9
14	Bachelor	B.Sc(Ho)	19201205	Physics-III	2202	##	DOIFODE SHWETA SAMBHAI	Theory	CA	P	5
15	Bachelor	B.Sc(Ho)	19201205	Physics-III	2205	##	GADE RUTUJA RAMDAS	Theory	CA	P	8
16	Bachelor	B.Sc(Ho)	19201205	Physics-III	2207	##	GAIKWAD DNYANESHWAR SHARAD	Theory	CA	P	7
17	Bachelor	B.Sc(Ho)	19201205	Physics-III	2217	##	GAWALI VAIBHAVI DATTA	Theory	CA	P	6
18	Bachelor	B.Sc(Ho)	19201205	Physics-III	2221	##	GHEMAD DIVYA LAXMAN	Theory	CA	P	6
19	Bachelor	B.Sc(Ho)	19201205	Physics-III	2227	##	GIRI SURAJ MAHADEV	Theory	CA	P	7
20	Bachelor	B.Sc(Ho)	19201205	Physics-III	2244	##	JAGTAP NAMRATA RAVINDRA	Theory	CA	P	9
21	Bachelor	B.Sc(Ho)	19201205	Physics-III	2254	##	KALE NIKITA NAVNATH	Theory	CA	P	8
22	Bachelor	B.Sc(Ho)	19201205	Physics-III	2256	##	KALE SHRUSHTI SUBHASH.	Theory	CA	P	10
23	Bachelor	B.Sc(Ho)	19201205	Physics-III	2257	##	KALE VIDYA DATTATRAY	Theory	CA	P	5
24	Bachelor	B.Sc(Ho)	19201205	Physics-III	2269	##	KAYAT SANJANA PAPAYYA	Theory	CA	P	6
25	Bachelor	B.Sc(Ho)	19201205	Physics-III	2272	##	KHAIRE AISHWARYA BHAUSAHEB	Theory	CA	P	7
26	Bachelor	B.Sc(Ho)	19201205	Physics-III	2274	##	KHAIRE SARTHAK BALAJI	Theory	CA	P	6
27	Bachelor	B.Sc(Ho)	19201205	Physics-III	2280	##	KHUNE PRITI KIRAN	Theory	CA	P	7
28	Bachelor	B.Sc(Ho)	19201205	Physics-III	2286	##	KONDHARE PRASAD PRASHANT	Theory	CA	P	5
29	Bachelor	B.Sc(Ho)	19201205	Physics-III	2289	##	KULKARNI SOURABH SURESH	Theory	CA	P	5
30	Bachelor	B.Sc(Ho)	19201205	Physics-III	2290	##	Kurhade Rohidas Ramling	Theory	CA	P	5
31	Bachelor	B.Sc(Ho)	19201205	Physics-III	2291	##	KUSALKAR AKASH NANASAHEB	Theory	CA	P	6
32	Bachelor	B.Sc(Ho)	19201205	Physics-III	2298	##	LOKARE KIRTI SURESH	Theory	CA	P	7
33	Bachelor	B.Sc(Ho)	19201205	Physics-III	2302	##	Mali Alisha Bharat	Theory	CA	P	5
34	Bachelor	B.Sc(Ho)	19201205	Physics-III	2310	##	MANJARE SHWETA RAVINDRA	Theory	CA	P	5
35	Bachelor	B.Sc(Ho)	19201205	Physics-III	2312	##	MASKE SANDESH SANJAY	Theory	CA	P	10
36	Bachelor	B.Sc(Ho)	19201205	Physics-III	2320	##	MORE RUTUJA RAJENDRA	Theory	CA	P	5
37	Bachelor	B.Sc(Ho)	19201205	Physics-III	2324	##	MUKATE KALPAK RAVINDRA	Theory	CA	P	7
38	Bachelor	B.Sc(Ho)	19201205	Physics-III	2328	##	MUNDHE ASHISH SHAMRAO	Theory	CA	P	5
39	Bachelor	B.Sc(Ho)	19201205	Physics-III	2337	##	PACHAPULE ABHIJEET VIKRAM	Theory	CA	P	5
40	Bachelor	B.Sc(Ho)	19201205	Physics-III	2339	##	Padule Gokul Jagannath	Theory	CA	P	5
41	Bachelor	B.Sc(Ho)	19201205	Physics-III	2341	##	PANDIT SIDDHRATH BHAGWAT	Theory	CA	P	10
42	Bachelor	B.Sc(Ho)	19201205	Physics-III	2345	##	PATHAN SUJAN SADIK	Theory	CA	P	9
43	Bachelor	B.Sc(Ho)	19201205	Physics-III	2348	##	PATIL ISHWARI SUDHIR	Theory	CA	P	5
44	Bachelor	B.Sc(Ho)	19201205	Physics-III	2359	##	PAWAR SHIVAJI BHAUSAHEB	Theory	CA	P	5
45	Bachelor	B.Sc(Ho)	19201205	Physics-III	2364	##	RAUT GITANJALI DHANANJAY	Theory	CA	P	5
46	Bachelor	B.Sc(Ho)	19201205	Physics-III	2367	##	Sabale Siddhivinayak Hanumant	Theory	CA	P	5
47	Bachelor	B.Sc(Ho)	19201205	Physics-III	2372	##	SATPUTE PRADUMN PANDURANG	Theory	CA	P	5
48	Bachelor	B.Sc(Ho)	19201205	Physics-III	2381	##	SHELKE SUJATA JAMBUVANT	Theory	CA	P	5
49	Bachelor	B.Sc(Ho)	19201205	Physics-III	2382	##	SHINDE AISHWARYA VILAS	Theory	CA	P	5
50	Bachelor	B.Sc(Ho)	19201205	Physics-III	2384	##	SHINDE ASMITA AMAR	Theory	CA	P	5
51	Bachelor	B.Sc(Ho)	19201205	Physics-III	2392	##	SURWASE VAISHNAVI RAJENDRA	Theory	CA	P	5

55	Bachelor	B.Sc(Ho)	19201205	Physics-III	2394	##	SUTAR SHRUTI SANJAY	Theory	CA	P	6
56	Bachelor	B.Sc(Ho)	19201205	Physics-III	2395	##	TAMBOLI SOHEL MOHAMMAD	Theory	CA	P	5
57	Bachelor	B.Sc(Ho)	19201205	Physics-III	2398	##	THAKUR OM SUNILSING	Theory	CA	P	10
58	Bachelor	B.Sc(Ho)	19201205	Physics-III	2403	##	VASEKAR VAIBHAV KISAN	Theory	CA	P	5
59	Bachelor	B.Sc(Ho)	19201205	Physics-III	2410	##	WAGHMARE ANKITA NANASAHEB	Theory	CA	P	10
60	Bachelor	B.Sc(Ho)	19201205	Physics-III	2412	##	WAGHMARE GANESH SHANKAR	Theory	CA	P	7
61	Bachelor	B.Sc(Ho)	19201205	Physics-III	2413	##	WAGHMARE PRATIKSHA SAHEBRAO	Theory	CA	P	5
62	Bachelor	B.Sc(Ho)	19201205	Physics-III	2416	##	YADAV ANIKET ANIL	Theory	CA	P	7
63	Bachelor	B.Sc(Ho)	19201205	Physics-III	2419	##	YADAV PRITI UMESH	Theory	CA	P	10
64	Bachelor	B.Sc(Ho)	19201205	Physics-III	2422	##	ZAGZAP AADITYA NAVNATH	Theory	CA	P	5

Dr. Shivaji

Dr. Shivaji Waghmare
Assistant professor

Sm. Kabbur

Head

Dept. of Physics (Sr.)
Shri Shivaji Mahavidyalaya, Barshi.

Rev.

I/C. PRINCIPAL
Shri Shivaji Mahavidyalaya, Barshi.

Shri Shivaji Mahavidyalaya, Barshi

Department of Physics

Internal Examination -2022 (Sem. IV)

Paper No. VIII Modern Physics.

Class – B.Sc- II

Time – 1 Hour

Date- 28/05/2022

Mark-10

Q.1) Select the correct alternative from the following

05

- 1) The special theory of relativity was developed by
a) Einstein b) Newton c) Galileo d) Rutherford
- 2) The internal frame of reference is frame of reference.
a) An accelerated b) An unaccelerated c) A rotating d) An oscillating
- 3) Who formulated first the classical theory of relativity?
a) Einstein b) Newton c) Galileo d) Rutherford
- 4) The discovery of nuclear fission was made by
a) Einstein b) Fermi c) Meitner d) Rutherford
- 5) Nuclear fission takes place if Uranium is bombarded by
a) Electrons b) Protons c) Neutrons d) Gamma rays

Q.2) Answer the following (any 2)

1. Discuss about discovery of nuclear fission reaction by giving an account on energy released in nuclear fission. Hence explain the chain reaction.
2. Describe the Michelson-Morle experiment. How is the negative result interpreted?
3. Define the inertial frame of reference. State the postulates of special theory of relativity.

SHRI SHIVAJI MAHAVIDYALAYA

Head
Dept. of Physics (S.T.)

Shri Shivaji Mahavidyalaya, Barshi



(School-106)
2/1
108

Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi.

College of Internal Examination 20 21-2022

Date : 28 / 5 / 2022

Time :

Class : B. Sc. II

Subject : Physics

Paper No. : VIII Modern physics

Semester : IV

Sr.No.	Roll Number	Full Name of the Student	Signature
1	2043	Sreyankar Mayan Krishna	[Signature]
2	2074	Takbhate Parthivraj Laxman	[Signature]
3	2034	Moze Toran Shashikant	[Signature]
4	2011	Mane Jyotiram Balasaheb	J.B. Mane
5	2012	Sathe Sudarshan Navnath	[Signature]
6	2056	Waghmare Tejas Sugriv	[Signature]
7	2055	Neshmukh Shubham Tanaji	S.T.D
8	2015	Patil Aditya Bharat	[Signature]
9	2039	Kakade Abhisit Viray	[Signature]
10	2068	Jamdar Sumit Sandesh	[Signature]
11	2075	Pawar Shrikrushna Dinesh	[Signature]
12	2076	Chouze Dinesh Mahadev	CHOUZE D.M.
13	2078	Patil Rajanan Balasaheb	[Signature]
14	2045	Mane Rushikesh Kisanrao	[Signature]
15	2044	Shaikh Ilyas Mahemud	[Signature]
16	2010	Shaikh Parvi Iqbal	[Signature]
17	2019	Sawalgji Yash Appasaheb	[Signature]
18	2022	Waghmare Sujit Jaijirao	[Signature]
19	2014	Bhosale Kishori Kalidas	[Signature]
20	2016	Gaikwad Vaishnavi Balasaheb	[Signature]
21	2031	Sirsat Pranali Bibhishad	[Signature]
22	2001	Padage Akash Shrinivas	[Signature]
23	2008	Raut Rohan R.	[Signature]
24			
25			

No. of Student present :

Name of the Supervisor :

No. of Student absent :

Total No. of Student :

Signature of the Supervisor/s

Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi.

College of Internal Examination 2021-2022

Date : 28/05/2022

Class : B.Sc. II

Time :

Paper No. : VIII Modern Physics

Subject : Physics

Semester : IV

Sr.No.	Roll Number	Full Name of the Student	Signature
1	2035	Jagdale Nandini Dipak	<u>Jagdale</u>
2	2038	Gavali Priti Rajendra	<u>Gavali P.R.</u>
3	2033	Karale Priti Avinash	<u>Karale</u>
4	2003	Gund Aarati Rajendra	<u>P. Gund</u>
5	2026	Kolhe Neha Nagnath	<u>Kolhe</u>
6	2027	Thavare Priyanka Vitthal	<u>Thavare</u>
7	2029	khalli Muskan Sallauddin	<u>Muskan</u>
8	2006	Lakshu Komal Hanumanant	<u>Lakshu</u>
9	2040	Dahiwal Reenuka Salish	<u>Dahi.</u>
10	2017	Raut Sanjivani Sunil	<u>Raut</u>
11	2021	Gaekwad Atanksha Mahadev	<u>A.M. Gaekwad</u>
12	2020	Dhage Ankita Anil	<u>Dhage A.A.</u>
13	2004	Navale Gitanjali Nanasahab	<u>Navale G.N.</u>
14	2024	Dhavale Aishwarya Nitin	<u>Dhavale</u>
15	2079	Mote chaitali Baliram	<u>Mote</u>
16	2009	Andhare Megha Gorakh	<u>Megha</u>
17	2031	Sisat Parnali Bibhishan	<u>Parnali</u>
18	2028	Jadhav Swati Bhagvan	<u>S.B. Jadhav</u>
19	2032	Andhare Mrunal Mrugendra.	<u>Mrunal</u>
20	2025	Kore Gayatri Someshwar	<u>Kore</u>
21	2030	Dixit Pooadmya Anand	<u>Dixit</u>
22	2005	Kalaskar Bhavana Ramesh	<u>Bhavana</u>
23	2002	Magar Varsha Hanumanant	<u>V.H. Magar</u>
24	2080	shaikh Alisha Alamgir	<u>Shaikh</u>
25	2018	Bhosale Apeksha Salish	<u>A.S. Bhosale</u>
26	2023	Wkirkde Amruta Dattatrya	<u>Amruta</u>

No. of Student present :

Name of the Supervisor :

No. of Student absent :

Total No. of Student :

Signature of the Supervisor/s

REPORT SUMMARY

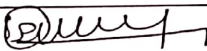
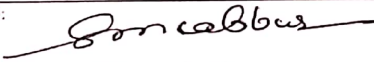

Paper Wise Mark List (Against Seat Number)

This report contains Paper Wise Mark List (against Seat Number) of 49 Students.

Course	B.Sc(Hons)(with Credits) - Regular-CBCS Pattern 2019-B.Sc-II-Sem-IV
Exam Event	Mar-2022
Teaching Learning Method/Assessment Method/Type	Physics-VIII (19201435)-Theory- Lectures-College Assessment-Not Applicable

ADEC Name : Shri Shivaji Mahavidyalaya (SMB)
Date : 07-20-2022

END OF SUMMARY - DETAILED REPORT BEGINS

Signature: 	Signature: 	Signature: 
Name: Dr. S. D. Walephmare	Name: Head	Name: I/c. PRINCIPAL
Designation: Assistant professor	Designation: Dept. of Physics (Sr.)	Designation: I/c. PRINCIPAL
Date: 20/7/2022	Date: Shri Shivaji Mahavidyalaya, Barshi	Date: Shri Shivaji Mahavidyalaya, Barshi

DATA EXPORTED DATE: DATA IS NOT YET EXPORTED
Report generated by c32534-5 on Wednesday, July 20, 2022, 11:35:02 AM



Shri Shivaji Mahavidyalaya, Barshi

Department of Physics

Internal Examination -2022 (Sem. VI)

Paper No. XV Quantum Mechanics

Time - 1 Hour

Date- 25/05/2022

Class - B.Sc-III

Mark-20

05

Q.1 Select the correct alternative from the following

1) De Broglie wave equation is

a) $\lambda = h/p$

b) $\lambda = p/h$

c) $p = \lambda/h$

d) $\lambda = hp$

2) The energy equation for particle in 3D is

a) $n^2\pi^2\hbar^2/2mL^2$

b) $(n_x^2+n_y^2+n_z^2)\pi^2\hbar^2/2mL^2$

c) $(n_x^2+n_y^2+n_z^2)\pi^2/2mLh^2$

d) $n^2\hbar^2/2mL\pi^2$

3) Concept of matter waves was proposed by

a) Newton

b) Einstein

c) de-Broglie

d) Bohr

4) Momentum operator $P = \dots\dots$

a) $P = i\hbar\partial/\partial t$

b) $P = i\hbar\partial/\partial x$

c) $P = -i\hbar\partial/\partial x$

d) $P = -\frac{\hbar}{i}\partial/\partial t$

5) In the spectra of alkali metals, the doublet separation decreases with

a) Increases in atomic number

b) Increases in principal quantum number

c) Decreases in orbital angular momentum quantum number (l)

d) None of these

Q.2) Answer the following (any 3)

1. Write a note on significance of wave function Ψ .

2. What is Paschen-back effect? Obtain an expression for term value.

3. Obtain Schrodinger's 1D wave equation of time independent form.

4. Write a note on Anamolous Zeeman effect.

15



Internal Test AMP & Quantum Physics XVI (22) ~~23~~
 Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi. Theory - RRV
College of Internal Examination 20 -20

Date : 30 / 05 / 2022 Time : 1:15 - 2:15
 Class : B.Sc. III Subject : Physics
 Paper No. : XVI Quantum mechanics Semester : VI

Sr.No.	Roll Number	Full Name of the Student	Signature
1	3323	Sontakke Swapnil Bapu	<u>Swapnil</u>
2	3318	Patil Aditya Dhanurdhar	<u>Aditya Patil</u>
3	3322	Shinde onkar vijaykumar	<u>o.v.sinde</u>
4	3314	Gaekhar Ganesh Prakash	<u>Ganesh</u>
5	3319	Patil Sujit Balasaheb	<u>Patil</u>
6	3305	Agalave Dattatraya Shivaji	<u>Agalave</u>
7	3327	Yadav Ganesh Shrimant	<u>Yadav</u>
8	3317	Masalkar Mahesh Tukaram	<u>Masalkar</u>
9	3308	Band Swati Shivaji	<u>Swati Band</u>
10	3312	Dhavale Rudha Appanna	<u>Dhavale</u>
11	3324	Sopal chinmyi Gajanan	<u>Chinmyi</u>
12	3311	Dalavi Supriya Shahaji	<u>Supriya</u>
13	3313	Dhavale Vaishnavi Balasaheb	<u>Vaishnavi</u>
14	3321	Shinde Kshiteej Nanalkumar	<u>Shinde</u>
15	3315	Kamble Arindh Kundlik	<u>Arindh</u>
16	3310	Chobe Vaishnavi Balasaheb	<u>Chobe</u>
17	3307	Atkare Ashwini Somnath	<u>Atkare</u>
18		Raut Akshay Divan	<u>Raut</u>
19		Waghmode Sagar	<u>Waghmode</u>
20		Hombur P-c	<u>Hombur</u>
21		Raut Lakshan	<u>Raut</u>
22		Bhadange Sreha	<u>Bhadange</u>
23			
24			
25			

No. of Student present : Name of the Supervisor :
 No. of Student absent :
 Total No. of Student : Signature of the Supervisor/s

G.M.P.

Paper Wise Mark List (Against Seat Number)

This report contains Paper Wise Mark List (against Seat Number) of 23 Students

Course	B.Sc(Hons)(with Credits) - Regular CBCS Pattern 2019 B.Sc.-III-Sem-VI
Exam Event	Mar-2022
Teaching Learning Method/Aessment Method/Type	Physics Paper-XV (15201520)-Theory- Lectures-College Assessment-Not Applicable

ADFC Name : Shri Shivaji Mahavidyalaya (SMB)
Date : 07-19-2022

—————END OF SUMMARY - DETAILED REPORT BEGINS—————

Signature: <i>Sonrabbe</i>	Signature: <i>Sonrabbe</i>	Signature: <i>Penl</i>
Name: Dr. S.M. Kabbe	Name: Head	Name: I/c.PRINCIPAL
Designation: <i>Head</i>	Designation: Dept. of Physics (Sr.)	Designation: Shri Shivaji Mahavidyalaya, Barshi.
Date: <i>20/7/2022</i>	Date: Shri Shivaji Mahavidyalaya, Barshi	Date: Shri Shivaji Mahavidyalaya, Barshi.

DATA EXPORTED DATE: DATA IS NOT YET EXPORTED
Report generated by c32534 on Tuesday, July 19, 2022, 1:34:20 PM

Shri Shivaji Mahavidyalaya, Barshi
Department of Physics
Internal Examination -2022 (Sem. - II)
Class – M.Sc- I Paper No. .HCT 2.1 Quantum Mechanics

Time – 1 Hour

Date- 23/05/2022

Mark-10

Q.1 Select the correct alternative from the following

05

1. According to wave mechanics, a material particle is associated with :
a) a single wave b) a wave packet c) progressive wave d) light wave
2. The value of probability density will be -----
a) $1/\sqrt{2}$ b) $1/2$ c) $1/2^2$ d) $\sqrt{2}$
- 3) To solve schrodinger equation we need potential & -----
a) Physical requirement of system b) Boundry condition c) Both d) None of these
- 4) The dynamic property of single particle motion is -----
a) 1-D problem b) 2- D problem c) 3- D problem d) None of these
- 5) Schrodinger equation is a -----
a) 1 st order differential equation b) 2 nd order differential equation
c) both d) None

Q.2) Answer the following (any 3)

05

1. Characteristics of the wave functions
2. Write a note on One Dimensional Box.
3. Second postulates of quantum mechanics

Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi.

College of Internal Examination 20 -20

Date : 23/05/2022

Time :

Class :: M.S.C.I

Subject :

Paper No. : Quantum Mechanics

Semester : II

HCT 21

Sr.No.	Roll Number	Full Name of the Student	Signature
1	1.	Dhokale Dipali sambhaji	Dhokale
2	2	Maske kranti narhari	kranti
3	3	Dahibhate Amruta Hanuman	Amruta A.H.
4	4.	Patil Vaishnavi Anant Rao	Patil
5	5	Bokade Shrawani Nitthal	Bokade
6	6	Gaekwad Purnima Adesh	Purnima
7	7.	Sathe Sudarshan Suresh Kant	Sathe
8	8)	Khandale Sagar Mohan	Sagar
9	9)	Jadhav Rameshwar Santosh.	Jadhav
10	10)	Jadhav Abhay Vikas.	A.V. Jadhav.
11	11	Lamgunde Tejastri Kailas	Tejastri
12	12	Narute Poornam Annasahel	Narute P.A.
13	13	Gore Rutuja Devidas	Gore
14	14	Andhare Priya Sudam	Andhare
15	15	Jadhav Rutuja Vishn	Rutuja
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No. of Student present :

Name of the Supervisor : Miss. Landge S.J.


No. of Student absent :

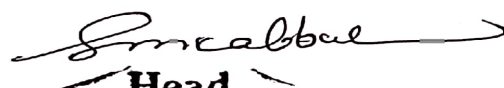
Total No. of Student :

[Signature]
Signature of the Supervisor/s

M.Sc. I Sem-II Paper Code- MSC09201 - Quantum Mechanics
March/April - 2022

Sr No	Course Part	Course Term	Paper Code	Paper Name	Seat No	PrnNo	StudentName	Assessment Method	Assessment Type	Attendance	Assessment Marks
1	Master of S	M.Sc.Regul	MSC09201	Quantum M	2568	2.02E+14	ANDHARE PRIYA SUDAM	Theory	CA	P	18
2	Master of S	M.Sc.Regul	MSC09201	Quantum M	2569	2.02E+14	BOKADE SHRAWANI VITTHAI	Theory	CA	P	18
3	Master of S	M.Sc.Regul	MSC09201	Quantum M	2570	2.02E+14	DAHIBHATE AMRUTA HANUMANT	Theory	CA	P	15
4	Master of S	M.Sc.Regul	MSC09201	Quantum M	2571	2.02E+14	DHOKALE DIPALI SAMBHAJI	Theory	CA	P	18
5	Master of S	M.Sc.Regul	MSC09201	Quantum M	2572	2.02E+14	GARAD PRANITA ADESH	Theory	CA	P	17
6	Master of S	M.Sc.Regul	MSC09201	Quantum M	2573	2.02E+14	GORE RUTUJA DEVIDAS	Theory	CA	P	13
7	Master of S	M.Sc.Regul	MSC09201	Quantum M	2574	2.02E+14	JADHAV ABHAY VIKAS	Theory	CA	P	15
8	Master of S	M.Sc.Regul	MSC09201	Quantum M	2575	2.02E+14	JADHAV RAMESHWAR SANTOSH	Theory	CA	P	16
9	Master of S	M.Sc.Regul	MSC09201	Quantum M	2576	2.02E+14	JADHAV RUTUJA VISHNU	Theory	CA	P	16
10	Master of S	M.Sc.Regul	MSC09201	Quantum M	2577	2.02E+14	KHANDALE SAGAR MOHAN	Theory	CA	P	17
11	Master of S	M.Sc.Regul	MSC09201	Quantum M	2578	2.02E+14	LAMGUNDE TEJASHRI KAILAS	Theory	CA	P	14
12	Master of S	M.Sc.Regul	MSC09201	Quantum M	2579	2.02E+14	MASKE KRANTI NARHARI	Theory	CA	P	15
13	Master of S	M.Sc.Regul	MSC09201	Quantum M	2580	2.02E+14	NARUTE POONAM ANNASAHEB	Theory	CA	P	16
14	Master of S	M.Sc.Regul	MSC09201	Quantum M	2581	2.02E+14	PATIL VAISHNAVI ANANTRAO	Theory	CA	P	16
15	Master of S	M.Sc.Regul	MSC09201	Quantum M	2582	2.02E+14	SATHE SUDARSHAN SURYAKANT	Theory	CA	P	14


Landge S.I
Subject Teacher


Head
Dept. of Physics (Sr.)
Shri Shivaji Mahavidyalaya, Barshi


I/c. PRINCIPAL
Shri Shivaji Mahavidyalaya, Barshi



Punyashlok Ahilyadevi Holkar Solapur University, Solapur
Dnyanteerth Nagar, Kegaon, Solapur - Pune National Highway, Solapur- 413255, Maharashtra (India)

Printed on: 01/08/2022

Blank Mark List For					
College Name: Shri Shivaji Mahavidyalaya, Barshi(SMB)					
Master of Science (With Credit)-I Physics (Nano Physics)					
M.Sc.Regular - CBCS Pattern 2020 - Physics (Nano Physics) - M.Sc.-I Sem-II					
Paper Code : MSC09201-Quantum Mechanics			Theory CA (Min Mark: 0 Max Mark: 20)		
Sr.No	Seat No	Name	PRN No	Marks	Total
1	002568	ANDHARE PRIYA SUDAM	202101082018102	18	18
2	002569	BOKADE SHRAWANI VITTHAL	202101082017793	18	18
3	002570	DAHIBHATE AMRUTA HANUMANT	202101082017806	15	15
4	002571	DHOKALE DIPALI SAMBHAJI	202101082017824	18	18
5	002572	GARAD PRANITA ADESH	202101082017825	16	16
6	002573	GORE RUTUJA DEVIDAS	202101082018121	17	17
7	002574	JADHAV ABHAY VIKAS	202101082018101	13	13
8	002575	JADHAV RAMESHWAR SANTOSH	202101082017830	15	15
9	002576	JADHAV RUTUJA VISHNU	202101082018126	16	16
10	002577	KHANDALE SAGAR MOHAN	202101082017829	17	17
11	002578	LAMGUNDE TEJASHRI KAILAS	202101082018100	14	14
12	002579	MASKE KRANTI NARHARI	202101082017808	15	15
13	002580	NARUTE POONAM ANNASAHEB	202101082018124	16	16
14	002581	PATIL VAISHNAVI ANANTRAO	202101082017804	16	16
15	002582	SATHE SUDARSHAN SURYAKANT	202101082017827	14	14

Total No of Students Found In This Paper : 15

Report Generated By: Mahadik S.D. on 01/08/2022 03:20:06pm

Sachin

Lamelge S.I

Subject Teacher

S. Mahadik

Head

Dept.of Physics (Sr.)

Shri Shivaji Mahavidyalaya, Barshi



Shri Shivaji Mahavidhyalaya, Barshi.
Department of Physics
Internal examination 2021-22 M.Sc. II Sem IV
HCP 4.1 Semiconductor Devices

Time : 30 Min.

Max. Marks : 10

-
- Q.1** Select the correct alternative and rewrite the following. 5
- Which of the following is bidirectional conducting device.
A) SCR B) PN diode C) DIAC D) GTO
 - The Minimum current required to keep the SCR ON is known as _____ current.
 A) Hold in B) Firing C) Saturation D) Threshold
 - The lightly doped region in power diode is known as _____.
A) N- region B) P- region C) Drift region D) Conducting region
 - _____ is uncontrolled semiconductor power device.
 A) PN diode B) TRIAC C) IGBT D) IGTh
 - The SCR is _____ triggering device.
A) +ve level B) -ve level C) +ve pulse D) -ve pulse
- Q.2** Attempt any TWO 5
- Explain with neat diagram the construction of Power diode.
 - Explain the characteristics of SCR.
 - Explain the working of DIAC.

Shri Shivaji Mahavidhyalaya, Barshi.
Department of Physics
Internal examination 2021-22 M.Sc. II Sem IV
HCP 4.1 Semiconductor Devices

Time : 30 Min.

Max. Marks : 10

-
- Q.1** Select the correct alternative and rewrite the following. 5
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A) +ve level B) -ve level C) +ve pulse D) -ve pulse
- Q.2** Attempt any TWO 5
- Explain with neat diagram the construction of Power diode.
 - Explain the characteristics of SCR.
 - Explain the working of DIAC.

Shri Shivaji Shikshan Prasarak Mandal, Barshi's
Shri Shivaji Mahavidyalaya, Barshi.
College of Internal Examination 20 -20

Date : 23 / 05 / 2022

Time :

Class :

Subject :

Paper No. :

Semester :

.....
 Semiconductor Devices

Sr.No.	Roll Number	Full Name of the Student	Signature
1		Gurav Vaishnavi Ramchandra.	Gurav V.R
2		Deshmukh Samrudhi Lalasahab	Desmukh
3		Bikash Shilpa Rajaram	Shilpa
4		Unde Trupti Kailas	T.K. Unde
5		Kalel Prajita Arun.	Prajita
6		Satpute Dnyaneshwar Bhairu	Satpute B
7		Dhumal Parvan Chaturghna	Dhumal
8		Namit Kisan Tipare	N.T. Tipare
9		Bhosale Poojati Bhasat	P.B. Bhosale
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TIS
(62)
(Group I) II

MVV
(62)
(Group I) II

REPORT SUMMARY

Paper Wise Mark List (Against Seat Number)

This report contains Paper Wise Mark List (against Seat Number) of 11 Students

Course	M.Sc.(with Credits) - Regular-CBCS Pattern 2020 - Physics (Nano Physics)-M.Sc.-II-Sem-IV
Exam Event	Mar-2022
Teaching Learning Method/Assessment Method/Type	Semiconductor Devices (MSC09401)-Theory- Lectures-College Assessment-Not Applicable

ADEC Name : Shri Shivaji Mahavidyalaya (SMB)
Date : 08-01-2022

END OF SUMMARY - DETAILED REPORT BEGINS

Signature: *[Signature]*
 Name: Landge S.I
 Designation: Asst. Prof.
 Date: 17/08/2022

Signature: *[Signature]*
 Name: Head
 Designation: Dept. of Physics (Sr.)
 Date: Shri Shivaji Mahavidyalaya, Barshi

Signature: *[Signature]*
 Name: I/c. PRINCIPAL
 Designation: Shri Shivaji Mahavidyalaya, Barshi
 Date:

Punyashlok Ahilyadevi Holkar Solapur University

Exam Event: Mar-2022

User Name: All Users

Course: M.Sc (with Credits) - Regular-CBCS Pattern 2020 - Physics (Nano Physics)-M.Sc.-II-Sem-IV


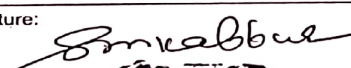
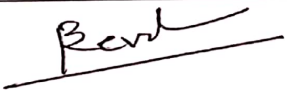
Paper: Semiconductor Devices (MSC09401)

Theory: Lectures-College Assessment

Max Marks: 20

Paper Wise Mark List (Against Seat Number)

Seat Number	Examiner Marks	Seat Number	Examiner Marks	Seat Number	Examiner Marks
018293	17	506906	15	507661	16
507690	16	531157	15	611305	14
702591	16	710373	16	710834	17
710865	16	710985	15		

Signature:  Name: Landge S-I Designation: Asst. Prof Date: 17/08/2022	Signature:  Name: Head Designation: Dept. of Physics (Sr.) Shri Shivaji Mahavidyalaya, Barshi	Signature:  Name: I/c. PRINCIPAL Designation: Shri Shivaji Mahavidyalaya, Barshi Date:
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DATA EXPORTED DATE: DATA IS NOT YET EXPORTED

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Page 2 of 2

