



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

FACULTY OF SCIENCE

DIRECTION NO. 9 OF 2016

DIRECTION GOVERNING THE EXAMINATION LEADING TO THE
DEGREE OF BACHELOR OF SCIENCE

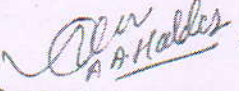
(THREE YEARS DEGREE COURSE – SEMESTER PATTERN)

(Issued under Section 14(8) of the Maharashtra Universities Act, 1994)

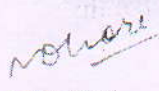
As per the direction No.9 of 2016 of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur this college has prepared the guideline for the preparation of Internal assessment.

Internal Assessment Guidelines

1. The internal assessment shall be done by the College at least 15 days prior to the final examination of each semester. Converted marks out of 10 shall be sent to the University immediately after the Assessment in the prescribed format.
2. The internal assessment marks assigned to each theory paper will be awarded based on Unit test/class test and students attendance in theory classes for UG Programmes.
3. Two unit test of 20 mark each will be conducted for theory paper.
4. For PG programmes internal assessment is based on Class Test, Internal projects, assignments, seminars, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions and innovative practices / activities decided by the respective department.
5. Teacher shall conduct the Internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.
6. The concerned teacher / department shall have to keep the record all the above activities of latest completed year of all the above activities until six months after the declaration of the results of that semester.
7. At the beginning of each semester, every teacher shall inform his / her students unambiguously the method he / she proposes to adopt and the scheme of marking for internal assessment.
8. Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / Principal.
9. For UG Programme Final submission of internal marks out of 10 for each paper shall be sent to the university before the commencement of the University Theory Examinations.


Internal Quality Assurance Cell
(IQAC)
S. S. E. S. A. Science College
Congress Nagar, Nagpur.




Principal
S. S. E. S. Amravati's
Science College, Nagpur.

2

SSES Amravati's Science Collge, Congress Nagar, Nagpur

Department of Chemistry

Teachers Allotment.

Internal Assessment Record-UG- (CIE)-2023-24

Class	Section	Paper-I		Paper-II	
		Teacher Name	Sign	Teacher Name	Sign
Sem-I	Sec-A+D	R.D. Urkude		S.V. Dautpree	
	Sec-C	J.K. Gunjate		S.S. Dhote	
	Sec-E	S.V. Dautpree		P.N. Deshmukh.	
Sem-II	Sec-A+D	J.K. Gunjate		P.N. Deshmukh.	
	Sec-C	R.A. Deshmukh		S.V. Dautpree	
	Sec-E	Prachi. Khobragade		S.V. Dautpree	
Sem-III	Sec-A+D	Dr. V.R. Kirhkar			
	Sec-C	Dr. V.R. Kirhkar		R.A. Deshmukh	
	Sec-E				
Sem-IV	Sec-A+D	Dr. V.R. Kirhkar		Dr. R.U. Khape	
	Sec-C	Dr. V.R. Kirhkar		P.N. Deshmukh.	
	Sec-E			P.N. Deshmukh.	
Sem-V	Sec-A+D	Dr. P.S. Utale		Dr. R.U. Khape	
	Sec-C	Dr. Jagata K. Meshram.		P.N. Deshmukh.	
	Sec-E				
Sem-VI	Sec-A+D	R.D. Urkude		Dr. P.S. Utale	
	Sec-C	Sarang Dhote		Dr. Jagata K. Meshram.	
	Sec-E	Prachi Khobragade			



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3

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

SEMESTER EXAMINATION (ODD SEMESTER) WINTER-2023

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

B.Sc. I (SEMESTER-I)

INTERNAL ASSESMENT-I

SUB: CHEMISTRY (PAPER I) INORGANIC CHEMISTRY

DATE OF ISSUE: 23/10/2023

MAX. MARKS : 20

NOTE:- I) ALL QUESTIONS ARE COMPULSORY.

II) WRITE THE ANSWER TO THE QUESTION ACCORDING TO MARKS ALLOTTED.

Q.1 Answer the following Question : 5 x 2 [10]

- A) Define ionization potential. What are the factors affecting it ? How does it vary in a group and in a period ?
- B) State and explain :
- (i) Heisenberg's uncertainty principle
 - (ii) Hund's rule of maximum multiplicity

Q.2 Answer the following Question : 2.5 x 2 [5]

- P) Give reason:
- i) An anion is always larger than its parent atom.
 - ii) Chromium has configuration $3d^5 4s^1$ and not $3d^4 4s^2$.
- Q) Calculate effective nuclear charge for valence electron in potassium ($Z=19$) and 3d electron of Copper ($Z=29$)

Q.3 Answer the following Question: 1 x 5 [5]

- i) Which has higher energy, 3d or 4s? Explain Why?
- ii) Draw the shape of the $d_{x^2-y^2}$ orbital.
- iii) Write down all four quantum numbers for the last electron of ${}_{21}\text{Sc}$.
- iv) Arrange the elements in increasing order of their size: -

$\text{F}^-, \text{Li}^+, \text{Na}^+, \text{Cl}^-$

- y) The electronic configuration of A is $1s^2 2s^2 2p^6 3s^2$
In which period and group does it belong?

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4
SSES Amravati's
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INTERNAL ASSESSMENT-2023-24

Clas : B.Sc-I		Paper-I -Inorganic Chemistry	Sem-I-W-2023	
Date:23/10/2023			Unit-Test-1	
S.N	Roll.No	Name of Student	Marks(20)	Remarks
1	1501	AMBULKAR ISHA PRADNYANAND	18	
2	1502	ANMADWAR KHUSHI RAJENDRA	16	
3	1503	BAHADURE VANSHITA DHARMAPAL	18	
4	1504	BHAGAT MAYBODHI DEWANAND	15	
5	1505	BHAGWAT KETKI AVIRAJ	18	<i>Bhagwat</i>
6	1506	BHALKAR GAURI ABHIJIT	16	
7	1507	BINEKAR MANSI SEVAK	20	
8	1508	BISEN RIYA DELIRAM	AB	Medical
9	1509	BORKAR MANSVI RAVI	20	
10	1510	BORKAR NANDINI RAMKRUSHNA	18	
11	1511	BORKAR SHREYASHA DINESH	16	
12	1512	BUDDHALWAR SIDDHI VYANKATESH	18	
13	1513	BUDHE VINAY RAJENDRA	15	
14	1514	CHAUHAN SHANTANUSINGH	18	
15	1515	CHODHARI SHRAVANI RAMESH	16	
16	1516	DAHAT SURBHI YOGRAJ	20	
17	1517	DAHERIYA JAYSIKA RAMKISHAN	AB	
18	1518	DAHIKAR SARWANI ATUL	20	
19	1519	DAS CHETANA SHAKTIPRASAD	16	
20	1520	DATARKAR NAYAN PRAKASHRAO	18	
21	1521	DHOTE SHRISHTI RAVINDRA	15	
22	1522	DOYE PRANALI SHRIKRUSHNA	18	
23	1523	GARODE GARGI SHAILESH	16	<i>Garode</i>
24	1524	GHOLSE LEENA BHOJRAJ	20	
25	1525	GIRI YASH DILIP	AB	Medical
26	1526	GODSE SIDDHI MADHAV	20	
27	1527	GOTMARE PARIKSHIT DEEPAK	16	
28	1528	GURVE ADITI RAMKRUSHNA	18	
29	1529	JAIN SHRUTI RAVIKUMAR	15	
30	1530	JAMGADE TANISHA VINOD	18	
31	1531	JENEKAR SHREYA NARENDRA	16	
32	1532	KADU KARTIK VIVEK	20	
33	1533	KALE VAIDEHI GIRISH	AB	
34	1534	KAMANE SAURABH JAGDISH	20	
35	1535	KAMBLE SHATAKSHI VIJAY	16	
36	1536	KHANDARE RIYA SUNIL	18	
37	1537	KHAPARDE SOURABHI RAJENDRA	15	
38	1538	KHEDULE TASHU VIPUL	18	
39	1539	KOLHE YASHASWI PRAVIN	16	<i>Kolhe</i>
40	1540	KUDKELWAR JANHVI RAVI	20	
41	1541	LANDE SONALI RAJENDRA	AB	Re-exam
42	1542	LOHAKARE SHRAVNI KAWADU	20	
43	1543	MADAVI MAITHILI PRABHAKAR	16	
44	1544	MADAVI TANVI PRAVIN	18	
45	1545	MANWATKAR MAHI PRAMOD	15	
46	1546	MASRAM SAMRUDHI SUBHASH	18	<i>Masram</i>
47	1547	MESHARAM SHRIVIN NAVIN	16	

5

SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR

INTERNAL ASSESMENT-2023-24

48	1548	NAGBHIDKAR ASTHA SANJAY	20	
49	1549	NANDANWAR SANIYA MURLIDHAR	AB	
50	1550	NIKHADE GAYATRI JITENDRA	20	
51	1551	NIKOSE VAISHNAVI VASANTA	16	
52	1552	NINAWA RAKHI SANJAY	18	
53	1553	NIPANE DARSHIKA DINDAYAL	15	
54	1554	PATHE MANSI HANUMAN	18	
55	1555	PATIL VAIBHAVI ASHOK	16	
56	1556	PATLE NITAL PRALHAD	20	
57	1557	PATLE VAIBHAV SAHADEO	AB	
58	1558	PURKAM SANSKRUTI KISHOR	20	
59	1559	RAHANGDALE KAJAL TULSHIDAS	16	
60	1560	RAMTEKE RUTUJA SHAIKESH	18	
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63	1563	RAUT NETRA NARENDRA	16	
64	1564	SALUJA MANMEET KAUR RANJEET SINGH	20	
65	1565	SEPURWAR RIYA.RAJENDRA	AB	Medical
66	1566	SHEIKH RAFIYA ANJUM INTEYAJ AHMAD	15	
67	1567	SHRIRAME SEJAL SHANKAR	AB	
68	1568	SHRIWAS BHUMIKA SUSHIL	20	
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74	1574	UMREDKAR BHAVINEE ANIL	20	
75	1575	WADASKAR NANDINI ARVIND	AB	
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77	1577	WAGH ANUSHKA VIKRAM	16	
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81	1581	WASNIK ASTHA SUNIL	16	
82	1582	YADAV JIYA ASHOK	20	
83	1583	BHAVESH SUBHASH KHOBRAGADE	AB	Re-Eval
84	1584	PURVA SANJAY KOHAD	20	
85	1585	VINARS NARAYAN PATLE	16	
86	1586	AYUSHI SIRSAT	18	
87	1587	ISHA KHADSE	15	
88	1588	TEJASVI HADGE	18	Tejasvi
89	1589	ASTHA NAGBHIDKAR	16	
90	1590	SEJWAL UIKEY	20	
91	1591	ABHILASHA MAHANT	18	

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B.Sc. I (SEMESTER-I)

INTERNAL ASSESMENT - 2

SUB: CHEMISTRY (PAPER I) INORGANIC CHEMISTRY

DATE OF ISSUE: 23/11/2023

MAX. MARKS : 20

NOTE:- I) ALL QUESTIONS ARE COMPULSORY.

II) WRITE THE ANSWER TO THE QUESTION ACCORDING TO MARKS ALLOTTED.

Q.1 Answer the following Question : 5 x 2 [10]

(A) What is hybridisation ? Discuss sp^3 and sp^3d^2 hybridization with suitable examples.

(B) What is Lattice energy ? Describe how Born-Haber cycle is used for finding the lattice energy of NaCl solid ?

Q.2 Answer the following Question : 2.5 x 2 [5]

(C) Explain diagonal relationship between boron and silicon.

(D) Explain the trend in ionization potential of p-block elements.

Q.3 Answer the following Question: (Any Five) 1 x 5 [5]

(i) State Schrodinger wave equation.

(ii) Arrange the electron affinity of halogens in decreasing order.

(iii) Define Ionisation potential.

(iv) Mention two limitations of Valence Bond Theory.

(v) State the type of hybridisation in SF_6 molecule.

(vi) Define Solvation energy.

(vii) Give the general outer electronic configuration of alkali metals and alkaline earth metals.

(viii) Draw the structure of XeF_6 molecule.

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SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
INTERNAL ASSESMENT-2023-24

Clas : B.Sc-I		Paper-I -Inorganic Chemistry	Sem-I-W-2023	
Date: 23/11/2023			Section: E (CMBT)	Unit-Test-2
S.N	Roll.No	Name of Student	Marks(20)	Remarks
1	1501	AMBULKAR ISHA PRADNYANAND	18	
2	1502	ANMADWAR KHUSHI RAJENDRA	16	
3	1503	BAHADURE VANSHITA DHARMAPAL	18	
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53

SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
 INTERNAL ASSESMENT-2023-24

45	1545	MANWATKAR MAHI PRAMOD	15	
46	1546	MASRAM SAMRUDHI SUBHASH	18	<i>Salam</i>
47	1547	MESHARAM SHRIVIN NAVIN	16	
48	1548	NAGBHIDKAR ASTHA SANJAY	20	
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82	1582	YADAV JIYA ASHOK	20	
83	1583	BHAVESH SUBHASH KHOBRADE	AB	<i>Re Test</i>
84	1584	PURVA SANJAY KOHAD	20	
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87	1587	ISHA KHADSE	15	
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91	1591	ABHILASHA MAHANT	18	

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6



RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR

Internal Marks Sheet

Exam Name : FIRST SEMESTER BACHELOR OF SCIENCE (B.Sc.)
Subject Name : CHEMISTRY (PAPER I)
College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE
Session: Winter-2023

Sem-I- P-I
2023-24.

Sr. No.	Seat No.	ENROLLMENT NO	STUDENT NAME	Marks/Max 10
1	353981		AAYESHA JABEEN ABDUL NAJEEB KHAN	10
2	353982		ABHILASHA CHANDRASHEKHAR MAHANT	08
3	353983		ABHIPSHA BASANT KUMAR SAHOO	10
4	353984		ADITI MAHESH SANGEWAR	10
5	353985		ADITI RAMKRISHNA GURVE	10
6	353986		ADITI SANJAY RATHOD	10
7	353988		AIMAN NISAR AHMAD ANSARI	09
8	353989		AISHWARYA MADAN DHEK	08
9	353990		AKANKASHA SANJAY ZADE	10
10	353992		ANANYA RAJAN SULAKHE	10
11	353993		ANCHAL KEDARNATH PANDEY	09
12	353998		ANJALI RAJESH YADAV	09
13	353999		ANKITA SURYABHAN TODAY	10
14	354000		ANOBHA NARENDRA MADARE	08
15	354002		ANUSHKA MANISH AIDBAN	10
16	354003		ANUSHKA PRAMOD NARNAWARE	09
17	354004		ANUSHKA PRAMOD RAUT	09
18	354005		ANUSHKA VIKRAM WAGH	10
19	354006		APEKSHA NAGSEN WANJARI	09
20	354007		ARYA RAJU NARTAM	10
21	354008		ASHWINI DINESH KATHANE	10
22	354009		ASHWINI YUVRAJ SIDAM	10
23	354010		ASTHA SANJAY NAGBHIDKAR	10
24	354011		ASTHA SUNIL WASNIK	10
25	354012		AVANTIKA GHANSHYAM SOMKUWAR	10
26	354013		AWANI PRASHANT KARWADE	08

S.V. Dautpore

J.K. Gunjab

R.D. Urkude
Signature of Examiner



7

RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR

Internal Marks Sheet

Exam Name : FIRST SEMESTER BACHELOR OF SCIENCE (B.Sc.)

Subject Name : CHEMISTRY (PAPER I)

College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE

Session: Winter-2023

Sr. No.	Seat No.	ENROLLMENT NO	STUDENT NAME	Marks/Max 10
27	354015		AYUSHI RUPESH SIRSAATH	08
28	354016		AYUSHRI ANIL GAWANDE	08
29	354020		BHAVINEE ANIL UMREDKAR	10
30	354022		BHUMI SUDHAKAR MAHAJAN	09
31	354023		BHUMIKA DEVENDRA DESHKAR	09
32	354024		BHUMIKA RAVINDRA THAWRE	10
33	354025		BHUMIKA SITARAM NIMJE	09
34	354026		BHUMIKA SUSHIL SHRIWAS	08
35	354027		BHUNESHWARI UMESH UIKEY	10
36	354028		CHAITALI JITENDRA NAKSHINE	09
37	354029		CHETANA SHAKTIPRASAD DAS	10
38	354030		DARSHANA HIRALAL KUKHIKE	10
39	354031		DARSHIKA DINDAYAL NIPANE	09
40	354033		DEVYANI ANAND ALONE	10
41	354035		DHARINI SHYAM KARANDE	09
42	354039		DRUTI WAMAN GAVHADE	10
43	354040		EKTA SANJAY TAMBUSKAR	10
44	354041		ESHIKA RAJU PARMAR	09
45	354043		GARGI SHAILESH GARODE	10
46	354044		GAURI ABHIJIT BHALKAR	10
47	354046		GAURI SUNIL DATE	10
48	354047		GAYATRI MANOJ HEDAOO	10
49	354048		GAYATRI RAVI BHISE	10
50	354049		GAYATRI TEJLAL NAGPURE	10
51	354050		GRISHMA VINOD GHATURLE	10
52	354053		HIMANI DHARMENDRA MASKE	10

S.V. Dautpne

R.D. Unkude
Signature of Examiner



RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR

Internal Marks Sheet

Exam Name : FIRST SEMESTER BACHELOR OF SCIENCE (B.Sc.)

Subject Name : CHEMISTRY (PAPER I)

College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE

Session: Winter-2023

Sr. No.	Seat No.	ENROLLMENT NO	STUDENT NAME	Marks/Max 10
313	354450	,	UMARANI SANJAY RALBANDIWAR	,
314	354452	,	VAIDEHI MANOHAR UPASE	,
315	354454	,	VAISHNAVI VINOD PAL	,
316	354456	,	VANUSHKA VINOD GHORE	,
317	354457	,	VASUDHA VIJAY IS AMAZING	,
318	354460	,	VISHA PRAKASH BARDE	,
319	354461	,	YASHIKA SUSHIL RANGARI	,
320	354465	,	ASHIT NARESH WASNIK	,
321	354466	,	AYUSH DILIP CHAVHAN	,
322	354469	,	DEVESH MAHESH AGNIHOTRI	,
323	354470	,	DEVESH RAJU KHARBIKAR	,
324	354473	,	HRUSHIKESH KIRAN BADGE	,
325	354475	,	KASHISH SUHAS LOKHANDE	,
326	354480	,	MAYUR PRASHANT MASKARE	,
327	354481	,	MOHAMMED SAHIL ANWAR MOHAMMED SADIQ MOTIWALA	,
328	354484	,	PREMANSHU ANIL WAHANE	,
329	354486	,	SANCHIT SHESHRAO JUNGHARE	,
330	354487	,	SARTHAK RAJENDRA PATHADE	,
331	354489	,	SHARVARI MANIKRAO PATEWAR	,
332	354491	,	SIDDHANT RAMUJI GHADGE	,
333	354496	,	VAIBHAV WAMAN TIDKE	,

Print Date & Time: 08-01-2024 01-13-53 PM

Signature of Examiner

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

SEMESTER EXAMINATION (ODD SEMESTER) WINTER-2023

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

B.Sc. I (SEMESTER-I)

INTERNAL ASSESMENT-I

SUB: CHEMISTRY (PAPER II) PHYSICAL CHEMISTRY

DATE OF ISSUE: 7/11/2023

MAX. MARKS : 20

NOTE:- I) ALL QUESTIONS ARE COMPULSORY.

II) WRITE THE ANSWER TO THE QUESTION ACCORDING TO MARKS ALLOTTED.

Q.1 Answer the following Question : 5 x 2 [10]

- A) What is Joule-Thomson effect ? Show that in Joule-Thomson experiment the enthalpy of gas remains constant. Define Joule-Thomson coefficient.
- B) What are extensive and intensive properties? Give two examples of each of them. Distinguish between Isothermal and Adiabatic process.

Q.2 Answer the following Question : 2.5 x 2 [5]

- P) Define State and Path function. What is inversion temperature.
- Q) What happens to the internal energy of the system.
- (a) if work is done by the system. (b) Work is done on the system.

Q.3 Answer the following Question: 1x 5 [5]

- i) Separate out the following into extensive and intensive:
Volume, Temperature, Pressure, Boiling point, Free energy
- ii) For an isolated system, $\Delta U=0$, what will be value of ΔT ?
- iii) What is inversion temperature.
- iv) What is bond enthalpy ?
- v) Calculate the difference between heat of reaction at constant pressure and constant volume for a reaction at 298 K.



S.V. Dautpne

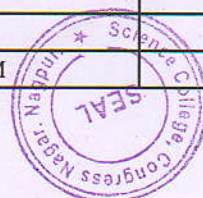
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SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR

DEPARTMENT OF CHEMISTRY
INTERNAL ASSESSMENT-2023-24

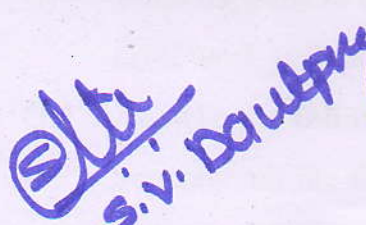
Clas : B.Sc-I		Paper-II -Physical Chemistry	Sem-I-W-2023	
Date:7/11/2023			SECTION-A+D	Unit-Test-1
S.N	Roll.No	Name of Student	Marks(20)	Remarks
1	1101	ANSARI AIMAN RAVISH NISAR AHMAD	18	
2	1102	BAGHEL DEEPAK SURENDRASINGH	16	
3	1103	BANKAR SHRUTI WAMAN	18	
4	1104	BAWANE KUMUDINI TAGESHKUMAR	15	
5	1105	CHAMALWAR PREET RAVINDRA	18	
6	1106	CHANDANKHEDE YASH CHINTAMAN	16	
7	1107	CHAUHAN KASHISH RAMVEER	20	
8	1108	DEOGADKAR MANASI SANJAY	AB	
9	1109	DESHBHRATAR MANASVI MANOJ	20	
10	1110	DESHKAR BHUMIKA DEVENDRA	18	
11	1111	DIGHORE KARTIK GANESH	16	
12	1112	GAIGAWALI SAYALI RAJU	18	
13	1113	GAJBHIYE SAMYAK VINOD	15	
14	1114	GAVHADE DRUTI WAMAN	18	
15	1115	HATMODE SAKSHI VIJAY	16	
16	1116	HAVELIKAR RUPALI BHOJRAJ	20	
17	1117	HUMNE JANHAVI PURAN	AB	Medical
18	1118	INWATE RISHI RANJEET	20	
19	1119	JAMRE SHANU OMPRAKASH	16	
20	1120	KALE SHAMALI PRAKASH	18	
21	1121	KANOJE YUGANSH NANDU	15	
22	1122	KHADSE PRANAY RAMESH	18	
23	1123	KHAIRE UDAY PRAKASH	16	
24	1124	KHAIRKAR ANIMESH PAWAN	20	
25	1125	KHAN AAYESHA JABEEN ABDUL NAJEEB	AB	
26	1126	KHARAT KRUNALI SURESH	20	
27	1127	KUHIKE DARSHANA HIRALAL	16	
28	1128	MANKAR KASHISH SHANKAR	18	
29	1129	MANKAR PRAJWAL VINOD	15	
30	1130	MASKE HIMANI DHARMENDRA	18	
31	1131	NARNAWARE ANUSHKA PRAMOD	16	
32	1132	NARTAM ARYA RAJU	20	
33	1133	NIMJE BHUMIKA SITARAM	AB	Medical
34	1134	PAL ROHIT KUMAR .ASHOK	20	
35	1135	PATEL KAYNAT WAJID	16	
36	1136	PIDURKAR NATASHA KISHOR	18	
37	1137	PIKALMUNDE DHANASHREE SANJAYKUMAR	15	
38	1138	RAJPUT RIDDHI BHAIYALAL	18	
39	1139	RAUT PRADNYA SURESH	16	
40	1140	RAUT RASIKA SACHIN	20	
41	1141	RAUT SHREYA PRADIP	AB	Re-Exam
42	1142	SANGEWAR ADITI MAHESH	20	
43	1143	SATARE KALYANI GAJANAN	16	
44	1144	SELOTE SALONI RAJU	18	
45	1145	SIDRA MAHVEEN ABDUL SALAM	15	




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46	1146	SINGH PRIYA KUMARI SANTOSH	18	
47	1147	SUKHADEVE JIYA ISHWAR	16	
48	1148	SULAKHE ANANYA RAJAN	20	
49	1149	SURPAM SHREYA UMESH	AB	medical
50	1150	SURYAWANSHI SHWETA BASANTLAL	20	
51	1151	THAWARE BHUMIKA RAVINDRA	16	
52	1152	TIRPUDE PRASHIK DEWANAND	18	
53	1153	UIKEY SHIVANI VINOD	15	
54	1154	WADHIVE JANHAVI VASANTA	18	
55	1155	WANDHE HIMANSHU DINESH	16	
56	1156	WANKHADE MRUNAL SUNIL	20	
57	1157	YADAV ANJALI RAJESH	AB	
58	1158	YELNE TANUSHREE DEVANAND	20	
59	1159	YEWALE ARYAN VIJAY	16	
60	1160	ZATALE MONA VIJAY	18	
61	1161	ANCHAL KEDARNATH PANDEY	15	
62	1162	MANAN SUNIL MARSKOLHE	18	
63	1163	LUCKY ANIL VISHWAKARMA	16	
64	1164	SAHIL RAMESHWAR KAPSE	20	
65	1165	ASHWINI DINESH KATHANE	AB	Re-exam
66	1166	PALASH RAMTEKE	15	
67				
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SEMESTER EXAMINATION (ODD SEMESTER) WINTER-2023
SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

B.Sc. I (SEMESTER-I)

INTERNAL ASSESMENT-II

SUB: CHEMISTRY (PAPER II) PHYSICAL CHEMISTRY

DATE OF ISSUE: 15/12/2023

MAX. MARKS : 20

NOTE:- I) ALL QUESTIONS ARE COMPULSORY.

II) WRITE THE ANSWER TO THE QUESTION ACCORDING TO MARKS ALLOTTED.

Q.1 Answer the following Question : 5 x 2 [10]

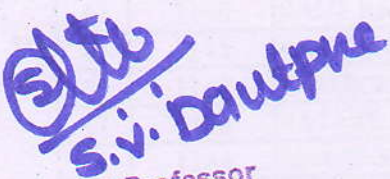
- A) Discuss Maxwell-Boltzman distribution of molecular velocities. Explain graphically how the velocities change with temperature
- B) Describe Andrew's experiment for critical phenomenon.

Q.2 Answer the following Question : 2.5 x 2 [5]

- P) State Graham's law of diffusion and deduce it from kinetic gas equation.
- Q) What is an ideal gas ? Discuss the deviation of real gases from ideal behaviour.

Q.3 Answer the following Question: (Any Five) 1 x 5 [5]

- (iii) Define standard states.
- (iv) State Avogadro's law.
- (v) Define mean free path.
- (vi) Write van der Waal's equation for n moles.
- (vii) Give any two uses of liquid crystal.
- (viii) Why the liquid drop is spherical ?
- (ix) What is reduced viscosity ?
- (x) What are adsorbates and adsorbents ?


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INTERNAL ASSESMENT-2023-24

Clas : B.Sc-I		Paper-II -Physical Chemistry	Sem-I-W-2023	
Date: 23-11-2023 15-12-2023		SECTION-A+D	Unit-Test-2	
S.N	Roll.No	Name of Student	Marks(20)	Remarks
1	1101	ANSARI AIMAN RAVISH NISAR AHMAD	18	
2	1102	BAGHEL DEEPAK SURENDRASINGH	16	
3	1103	BANKAR SHRUTI WAMAN	18	
4	1104	BAWANE KUMUDINI TAGESHKUMAR	15	
5	1105	CHAMALWAR PREET RAVINDRA	18	
6	1106	CHANDANKHEDE YASH CHINTAMAN	16	
7	1107	CHAUHAN KASHISH RAMVEER	20	
8	1108	DEOGADKAR MANASI SANJAY	AB	Medical
9	1109	DESHBHRATAR MANASVI MANOJ	20	
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17	1117	HUMNE JANHAVI PURAN	AB	
18	1118	INWATE RISHI RANJEET	20	
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25	1125	KHAN AAYESHA JABEEN ABDUL NAJEEB	AB	Medical
26	1126	KHARAT KRUNALI SURESH	20	
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46	1146	SINGH PRIYA KUMARI SANTOSH	18	

5




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SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
INTERNAL ASSESMENT-2023-24

47	1147	SUKHADEVE JIYA ISHWAR	16	
48	1148	SULAKHE ANANYA RAJAN	20	
49	1149	SURPAM SHREYA UMESH	AB	
50	1150	SURYAWANSHI SHWETA BASANTLAL	20	
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54	1154	WADHIVE JANHAVI VASANTA	18	
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56	1156	WANKHADE MRUNAL SUNIL	20	
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62	1162	MANAN SUNIL MARSKOLHE	18	
63	1163	LUCKY ANIL VISHWAKARMA	16	
64	1164	SAHIL RAMESHWAR KAPSE	20	
65	1165	ASHWINI DINESH KATHANE	AB	Homeskies
66	1166	PALASH RAMTEKE	15	
67				
68				
69				
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RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR

Internal Marks Sheet

Exam Name : FIRST SEMESTER BACHELOR OF SCIENCE (B.Sc.)
Subject Name : CHEMISTRY (PAPER II)
College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE
Session: Winter-2023

Sem-I-P-II
2023-24.

Sr. No.	Seat No.	ENROLLMENT NO	STUDENT NAME	Marks/Max 10
1	353981		AAYESHA JABEEN ABDUL NAJEEB KHAN	10
2	353982		ABHILASHA CHANDRASHEKHAR MAHANT	08
3	353983		ABHIPSHA BASANT KUMAR SAHOO	10
4	353984		ADITI MAHESH SANGEWAR	10
5	353985		ADITI RAMKRISHNA GURVE	10
6	353986		ADITI SANJAY RATHOD	10
7	353988		AIMAN NISAR AHMAD ANSARI	09
8	353989		AISHWARYA MADAN DHEK	09
9	353990		AKANKASHA SANJAY ZADE	10
10	353992		ANANYA RAJAN SULAKHE	10
11	353993		ANCHAL KEDARNATH PANDEY	08
12	353998		ANJALI RAJESH YADAV	10
13	353999		ANKITA SURYABHAN TODAY	10
14	354000		ANOBHA NARENDRA MADARE	09
15	354002		ANUSHKA MANISH AIDBAN	10
16	354003		ANUSHKA PRAMOD NARNAWARE	08
17	354004		ANUSHKA PRAMOD RAUT	09
18	354005		ANUSHKA VIKRAM WAGH	10
19	354006		APEKSHA NAGSEN WANJARI	09
20	354007		ARYA RAJU NARTAM	10
21	354008		ASHWINI DINESH KATHANE	08
22	354009		ASHWINI YUVRAJ SIDAM	10
23	354010		ASTHA SANJAY NAGBHIDKAR	10
24	354011		ASTHA SUNIL WASNIK	10
25	354012		AVANTIKA GHANSHYAM SOMKUWAR	09
26	354013		AWANI PRASHANT KARWADE	08

S.V. Daulpura

S.S. Dhok

P.N. Deshpande



**RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR**

Internal Marks Sheet

Exam Name : FIRST SEMESTER BACHELOR OF SCIENCE (B.Sc.)

Subject Name : CHEMISTRY (PAPER II)

College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE

Session: Winter-2023

Sr. No.	Seat No.	ENROLLMENT NO	STUDENT NAME	Marks/Max 10
235	354315		PRATIK JOGA ATRAM	09
236	354316		PREET RAVINDRA CHAMALWAR	08
237	354318		RISHI RANJEET INWATE	08
238	354321		ROHAN CHANDRASHEKHAR DARODE	08
239	354322		ROHIT KUMAR PAL ASHOK PAL	10
240	354326		SAHIL PADMAKAR CHAWHAN	10
241	354327		SAHIL RAMESHWAR KAPSE	10
242	354328		SAMIT KISHOR WAGHMARE	09
243	354332		SANVAY SANJAY SATPUTE	09
244	354335		SAURABH JAGDISH KAMANE	10
245	354336		SHANTANUSINGH SHAIENDRASINGH CHAUHAN	10
246	354338		SHRIVIN NAVIN MESHARAM	09
247	354341		SOUMYA SUNIL YADAV	10
248	354343		SWASTIK YASHWANT GIRADKAR	10
249	354345		TILAK SANTOSH GONNADE	10
250	354347		UDAY PRAKASH KHAIRE	08
251	354348		VAIBHAV KISHOR ATAK	08
252	354350	-	VINAY RAJENDRA BUDHE	10
253	354352		YASH CHINTAMAN CHANDANKHEDE	08
254	354353		YASH DILIP GIRI	08
255	354354		YASH RAKESH JAMPALWAR	10
256	354357		YUGANSH NANDU KANOJE	10
257	354360	-	AKANSHA VIJAY SHINDE	--
258	354361	-	AMBIKA AMIT SINGH	--
259	354363	-	ANJALI VISWAS BANSOD	--
260	354364	-	ANUSHKA ANIL GANVIR	--

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
SEMESTER EXAMINATION (EVEN SEMESTER) SUMMER-2024
SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR
B.Sc. I (SEMESTER-II)
INTERNAL ASSESMENT-UNIT-I AND II
SUB: CHEMISTRY (PAPER II) PHYSICAL CHEMISTRY

DATE : 3/5/2024

MAX. MARKS : 20

- NOTE:- I) ALL QUESTIONS ARE COMPULSORY.
II) WRITE THE ANSWER TO THE QUESTION ACCORDING TO MARKS ALLOTTED.

Q.1 Answer the following Question : 5 x 2 [10]

- A) What is Carnot Cycle ? Derive an expression for efficiency of a reversible carnot engine working between temperature T_1 and T_2
B) State Phase rule. Draw and discuss the salient features of phase diagram of water system.

Q.2 Answer the following Question : 2.5 x 2 [5]

- P) Derive Van't-Hoff equation.
Q) What are azeotropic mixtures? Explain with example the minimum boiling azeotrops.

Q.3 Answer the following Question: 1x 5 [5]

- i) Give any two statements of second law of thermodynamics.
ii) State law of chemical equilibrium.
iii) Write the relation between ΔG and ΔA .
iv) What is triple point of a system.
v) Write reduced phase rule equation.



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SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
INTERNAL ASSESMENT-2023-24

Clas : B.Sc-I		Paper-II -Physical Chemistry	Sem-II-S-2024	
Date:3-5-2024		Section: E (CMBT)	Unit-Test-1	
S.N	Roll.No	Name of Student	Marks(20)	Remarks
1	1501	AMBULKAR ISHA PRADNYANAND	18	
2	1502	ANMADWAR KHUSHI RAJENDRA	16	
3	1503	BAHADURE VANSHITA DHARMAPAL	18	
4	1504	BHAGAT MAYBODHI DEWANAND	15	
5	1505	BHAGWAT KETKI AVIRAJ	18	Bhagwat
6	1506	BHALKAR GAURI ABHIJIT	16	Gurubhat
7	1507	BINEKAR MANSI SEVAK	20	Binekar
8	1508	BISEN RIYA DELIRAM	AB	Re-Test Riya
9	1509	BORKAR MANSVI RAVI	20	Mansvi
10	1510	BORKAR NANDINI RAMKRUSHNA	18	NBorkar
11	1511	BORKAR SHREYASHA DINESH	16	
12	1512	BUDDHALWAR SIDDHI VYANKATESH	18	Buddhu
13	1513	BUDHE VINAY RAJENDRA	15	Budhe
14	1514	CHAUHAN SHANTANUSINGH	18	Ch
15	1515	CHOUDHARI SHRAVANI RAMESH	16	
16	1516	DAHAT SURBHI YOGRAJ	20	
17	1517	DAHERIYA JAYSIKA RAMKISHAN	AB	
18	1518	DAHIKAR SARWANI ATUL	20	Dahikar
19	1519	DAS CHETANA SHAKTIPRASAD	16	
20	1520	DATARKAR NAYAN PRAKASHRAO	18	Datar
21	1521	DHOTE SHRISHTI RAVINDRA	15	Dhote
22	1522	DOYE PRANALI SHRIKRUSHNA	18	Doye
23	1523	GARODE GARGI SHAILESH	16	Garode
24	1524	GHOLSE LEENA BHOJRAJ	20	Gholse
25	1525	GIRI YASH DILIP	AB	Medical
26	1526	GODSE SIDDHI MADHAV	20	Godse
27	1527	GOTMARE PARIKSHIT DEEPAK	16	
28	1528	GURVE ADITI RAMKRUSHNA	18	Gurvi
29	1529	JAIN SHRUTI RAVIKUMAR	15	Jain
30	1530	JAMGADE TANISHA VINOD	18	
31	1531	JENEKAR SHREYA NARENDRA	16	Jenkar
32	1532	KADU KARTIK VIVEK	20	Kadu
33	1533	KALE VAIDEHI GIRISH	AB	Re-Test
34	1534	KAMANE SAURABH JAGDISH	20	Kamane
35	1535	KAMBLE SHATAKSHI VIJAY	16	
36	1536	KHANDARE RIYA SUNIL	18	
37	1537	KHAPARDE SOURABHI RAJENDRA	15	Khaparde
38	1538	KHEDULE TASHU VIPUL	18	Khedule
39	1539	KOLHE YASHASWI PRAVIN	16	Kolhe
40	1540	KUDKELWAR JANHVI RAVI	20	Kudkelwar
41	1541	LANDE SONALI RAJENDRA	AB	Land
42	1542	LOHAKARE SHRAVNI KAWADU	20	Lohakare
43	1543	MADAVI MAITHILI PRABHAKAR	16	Madavi
44	1544	MADAVI TANVI PRAVIN	18	

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SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
INTERNAL ASSESMENT-2023-24

45	1545	MANWATKAR MAHI PRAMOD	15	M. Manwatkar
46	1546	MASRAM SAMRUDHI SUBHASH	18	S. Masram
47	1547	MESHARAM SHRIVIN NAVIN	16	
48	1548	NAGBHIDKAR ASTHA SANJAY	20	A. Astha
49	1549	NANDANWAR SANIYA MURLIDHAR	AB	
50	1550	NIKHADE GAYATRI JITENDRA	20	
51	1551	NIKOSE VAISHNAVI VASANTA	16	
52	1552	NINAWA RAKHI SANJAY	18	R. Rakhi
53	1553	NIPANE DARSHIKA DINDAYAL	15	
54	1554	PATHE MANSI HANUMAN	18	
55	1555	PATIL VAIBHAVI ASHOK	16	
56	1556	PATLE NITAL PRALHAD	20	
57	1557	PATLE VAIBHAV SAHADEO	AB	
58	1558	PURKAM SANSKRUTI KISHOR	20	
59	1559	RAHANGDALE KAJAL TULSHIDAS	16	
60	1560	RAMTEKE RUTUJA SHAILESH	18	
61	1561	RAUT BHAGYASHREE ANAND	15	
62	1562	RAUT KHUSHI BHALCHANDRA	18	
63	1563	RAUT NETRA NARENDRA	16	
64	1564	SALUJA MANMEET KAUR RANJEET SINGH	20	M. Manmeet K.
65	1565	SEPURWAR RIYA RAJENDRA	AB	
66	1566	SHEIKH RAFIYA ANJUM INTEYAJ AHMAD	15	
67	1567	SHRIRAME SEJAL SHANKAR	AB	Home solved S. Shrivame
68	1568	SHRIWAS BHUMIKA SUSHIL	20	
69	1569	TALE JAHANVI SURESH KUMAR	16	
70	1570	TALHAR SHRUTI AVINASH	18	
71	1571	TELANG VAIDEHI VIVEK	15	
72	1572	TITARMARE RENUKA AJAY	18	
73	1573	UIKEY SEJWAL SANJAY	16	
74	1574	UMREDKAR BHAVINEE ANIL	20	
75	1575	WADASKAR NANDINI ARVIND	AB	N. Wadaskar
76	1576	WAGDE NANDINI HEMANT.	20	N. Wadaskar
77	1577	WAGH ANUSHKA VIKRAM	16	
78	1578	WAGHAMARE MRUNALI MORESHWAR	18	
79	1579	WANKHEDE DURVESH NILESH	15	D. Wankhede
80	1580	WANKHEDE KANCHAN VINOD	18	D. Wankhede
81	1581	WASNIK ASTHA SUNIL	16	
82	1582	YADAV JIYA ASHOK	20	
83	1583	BHAVESH SUBHASH KHOBRAGADE	AB	A. B. Khobragade
84	1584	PURVA SANJAY KOHAD	20	P. Purva
85	1585	VINARS NARAYAN PATLE	16	V. Vinars
86	1586	AYUSHI SIRSAT	18	
87	1587	ISHA KHADSE	15	
88	1588	TEJASVI HADGE	18	T. Tejasvi
89	1589	ASTHA NAGBHIDKAR	16	
90	1590	SEJWAL UIKEY	20	
91	1591	ABHILASHA MAHANT	18	

92/1592 PARMAR. Eshika Raju

Ashika

SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
INTERNAL ASSESMENT-2023-24

54	1354	ALONE DEVYANI ANAND	18	<i>Alone</i>
55	1355	ATRAM PRATIK JOGA	16	
56	1356	ATRAM UNNATTI SHASHIKANT	20	
57	1357	BHISE GAYATRI RAVI	AB	<i>G.K. bhise</i>
58	1358	BORKAR SEJAL RAJESH	20	
59	1359	CHAPKE MOHINI SHANKAR	16	
60	1360	CHAUDHARY AYUSH SHRICHAND	18	
61	1361	CHAWHAN SAHIL PADMAKAR	15	
62	1362	CHIKRAM VAIDAVI ARVIND	18	
63	1363	DARODE ROHAN CHANDRASHEKHAR	16	
64	1364	DEHANKAR MANISHA SHASHIKANT	20	<i>Dehankar</i>
65	1365	DHANDE PRABUDHA PRADIP	AB	
66	1366	DUBEY POONAM SUSHIL	15	<i>Adubay</i>
67	1367	GAJBHIYE TANISHA VISHWAJIT	AB	<i>Medical Ganish</i>
68	1368	GHATURLE GRISHMA VINOD	20	<i>Graturle</i>
69	1369	HEDA00 GAYATRI MANOJ	16	<i>Heda</i>
70	1370	JADHAV TANUSHREE SUHAS	18	<i>Januj</i>
71	1371	KHAN INJILA NADIM	15	<i>Khan</i>
72	1372	KUKADE ASHLESHA DHANESH	18	
73	1373	LOKHANDE ANUSHKA PRAVIN	16	
74	1374	MAHAJAN BHUMI SUDHAKAR	20	
75	1375	MANDALE TANVI BABAN	AB	<i>Medical</i>
76	1376	MANSURE SANYUKTA SANJAY	20	
77	1377	MASRAM SUHANI GANESH	16	<i>Masram</i>
78	1378	MOHABIYA KASAK KAMAL	18	<i>Mohabiya</i>
79	1379	NAGPURE GAYATRI TEJLAL	15	<i>Nagpure</i>
80	1380	PAWARE VANSHIKA RAJESHWAR	18	
81	1381	PENDRAM ANKIT DAYARAM	16	
82	1382	RAJPUT MADHURA CHANDRASHEKHAR	20	
83	1383	SAHOO ABHIPSHA BASANT KUMAR	AB	<i>Re-exam</i>
84	1384	SHENDE KASAK PRAVIN	20	
85	1385	SHENDE KASHISH GOPAL	16	<i>Shende</i>
86	1386	SHENDRE VAISHALI NARENDRA	18	
87	1387	SOLANKI MOHAK HITESH	15	
88	1388	SORDE TANSHREE JAGDISH	18	<i>Sorde</i>
89	1389	SUTHAR SANGITA PUKHRAJ	16	<i>Sangitkar</i>
90	1390	TAMBUSKAR EKTA SANJAY	20	<i>Ekta</i>
91	1391	TICHKULE ALANKAR	18	
92	1392	UIKEY BHUVNESHWARI UMESH	15	
93	1393	VINCHURKAR KANAK ASHISH	18	
94	1394	WANJARI APEKSHA NAGSEN	16	<i>Wanjari</i>
95	1395	WANKHEDE SHREYA DNYANESHWAR	20	
96	1396	YADAV DIPESH GYANESHWAR	18	<i>Yadav</i>
97	1397	YADAV SOUMYA SUNIL	15	<i>Yadav</i>
98	1398	ZADE AKANKSHA SANJAY	18	
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102	1402	Sanvay Satpute	15	
103	1403			

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Shri
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Congress Nagar, Nagpur

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
SEMESTER EXAMINATION (EVEN SEMESTER) SUMMER-2024
SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR
B.Sc. I (SEMESTER-II)
INTERNAL ASSESMENT-UNIT-III AND IV
SUB: CHEMISTRY (PAPER II) PHYSICAL CHEMISTRY

DATE : 6/5/2024

MAX. MARKS : 20

NOTE:- I) ALL QUESTIONS ARE COMPULSORY.

II) WRITE THE ANSWER TO THE QUESTION ACCORDING TO MARKS ALLOTTED.

Q.1 Answer the following Question : 5 x 2 [10]

- A) What is first order reaction? Derive the equation for rate constant for the first order reaction.
- B) Give postulates of collision theory of reaction rate. Why all the collisions do not lead to reaction?

Q.2 Answer the following Question : 2.5 x 2 [5]

- P) Explain the application of radioisotopes in various fields.
- Q) Discuss the term Acid Rain and Photochemical Smog.

Q.3 Answer the following Question: 1x 5 [5]

- i) Define mass defect
- ii) Write the composition of atmosphere
- iii) For a certain first order reaction half life period is 100 sec. How long will it take for 75% completion of reaction.
- iv) Distinguish between order and molecularity of reaction.
- v) Mention any two effects of Oxides of nitrogen on air pollution.



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SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
INTERNAL ASSESMENT-2023-24

Clas : B.Sc-I		Paper-II -Physical Chemistry	Sem-II-S-2024	
Date:6-5-2024			Section: E (CMBT)	
S.N	Roll.No	Name of Student	Marks(20)	Remarks
1	1501	AMBULKAR ISHA PRADNYANAND	15	
2	1502	ANMADWAR KHUSHI RAJENDRA	16	
3	1503	BAHADURE VANSHITA DHARMAPAL	18	
4	1504	BHAGAT MAYBODHI DEWANAND	15	
5	1505	BHAGWAT KETKI AVIRAJ	18	Bhagwat
6	1506	BHALKAR GAURI ABHIJIT	16	Gurshaker
7	1507	BINEKAR MANSI SEVAK	20	
8	1508	BISEN RIYA DELIRAM	AB	Riya
9	1509	BORKAR MANSVI RAVI	20	Mansvi
10	1510	BORKAR NANDINI RAMKRUSHNA	18	N.Borkar
11	1511	BORKAR SHREYASHA DINESH	16	
12	1512	BUDDHALWAR SIDDHI VYANKATESH	18	Biddhi
13	1513	BUDHE VINAY RAJENDRA	15	Budhe
14	1514	CHAUHAN SHANTANUSINGH	18	Shant
15	1515	CHOUDHARI SHRAVANI RAMESH	16	
16	1516	DAHAT SURBHI YOGRAJ	20	
17	1517	DAHERIYA JAYSIKA RAMKISHAN	AB	Medical
18	1518	DAHIKAR SARWANI ATUL	20	Atul
19	1519	DAS CHETANA SHAKTIPRASAD	16	
20	1520	DATARKAR NAYAN PRAKASHRAO	18	Nayan
21	1521	DHOTE SHRISHTI RAVINDRA	15	Dhote
22	1522	DOYE PRANALI SHRIKRUSHNA	18	Pranali
23	1523	GARODE GARGI SHAILESH	16	Garode
24	1524	GHOLSE LEENA BHOJRAJ	20	Gholse
25	1525	GIRI YASH DILIP	AB	Giri
26	1526	GODSE SIDDHI MADHAV	20	Godse
27	1527	GOTMARE PARIKSHIT DEEPAK	16	
28	1528	GURVE ADITI RAMKRUSHNA	18	Gurve
29	1529	JAIN SHRUTI RAVIKUMAR	15	Shruti
30	1530	JAMGADE TANISHA VINOD	18	
31	1531	JENEKAR SHREYA NARENDRA	16	Jenekar
32	1532	KADU KARTIK VIVEK	20	
33	1533	KALE VAIDEHI GIRISH	AB	Medical
34	1534	KAMANE SAURABH JAGDISH	20	Kamane
35	1535	KAMBLE SHATAKSHI VIJAY	16	
36	1536	KHANDARE RIYA SUNIL	18	
37	1537	KHAPARDE SOURABHI RAJENDRA	15	Khaparde
38	1538	KHEDULE TASHU VIPUL	18	Khedule
39	1539	KOLHE YASHASWI PRAVIN	16	Kolhe
40	1540	KUDKELWAR JANHVI RAVI	20	Kudkelwar
41	1541	LANDE SONALI RAJENDRA	AB	Lande
42	1542	LOHAKARE SHRAVNI KAWADU	20	Lohakare
43	1543	MADAVI MAITHILI PRABHAKAR	16	Madavi
44	1544	MADAVI TANVI PRAVIN	18	

9

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INTERNAL ASSESMENT-2023-24

45	1545	MANWATKAR MAHI PRAMOD	15	<i>MPK</i>
46	1546	MASRAM SAMRUDHI SUBHASH	18	<i>Samrudhi</i>
47	1547	MESHARAM SHRIVIN NAVIN	16	
48	1548	NAGBHIDKAR ASTHA SANJAY	20	<i>Astha</i>
49	1549	NANDANWAR SANIYA MURLIDHAR	AB	
50	1550	NIKHADE GAYATRI JITENDRA	20	
51	1551	NIKOSE VAISHNAVI VASANTA	16	
52	1552	NINAWA RAKHI SANJAY	18	<i>Rakhi</i>
53	1553	NIPANE DARSHIKA DINDAYAL	15	
54	1554	PATHE MANSI HANUMAN	18	
55	1555	PATIL VAIBHAVI ASHOK	16	
56	1556	PATLE NITAL PRALHAD	20	
57	1557	PATLE VAIBHAV SAHADEO	AB	
58	1558	PURKAM SANSKRUTI KISHOR	20	
59	1559	RAHANGDALE KAJAL TULSHIDAS	16	
60	1560	RAMTEKE RUTUJA SHAILESH	18	
61	1561	RAUT BHAGYASHREE ANAND	15	
62	1562	RAUT KHUSHI BHALCHANDRA	18	
63	1563	RAUT NETRA NARENDRA	16	
64	1564	SALUJA MANMEET KAUR RANJEET SINGH	20	<i>Manmeet</i>
65	1565	SEPURWAR RIYA RAJENDRA	AB	<i>Riya</i>
66	1566	SHEIKH RAFIYA ANJUM INTEYAJ AHMAD	15	<i>Rafiya</i>
67	1567	SHRIRAME SEJAL SHANKAR	AB	<i>Re-Eval</i>
68	1568	SHRIWAS BHUMIKA SUSHIL	20	<i>Bhumika</i>
69	1569	TALE JAHANVI SURESH KUMAR	16	<i>Jahanvi</i>
70	1570	TALHAR SHRUTI AVINASH	18	
71	1571	TELANG VAIDEHI VIVEK	15	
72	1572	TITARMARE RENUKA AJAY	18	
73	1573	UIKEY SEJWAL SANJAY	16	
74	1574	UMREDKAR BHAVINEE ANIL	20	
75	1575	WADASKAR NANDINI ARVIND	AB	<i>Nandini</i>
76	1576	WAGDE NANDINI HEMANT	20	
77	1577	WAGH ANUSHKA VIKRAM	16	
78	1578	WAGHAMARE MRUNALI MORESHWAR	18	
79	1579	WANKHEDE DURVESH NILESH	15	<i>Durvesh</i>
80	1580	WANKHEDE KANCHAN VINOD	18	<i>Kanchan</i>
81	1581	WASNIK ASTHA SUNIL	16	
82	1582	YADAV JIYA ASHOK	20	<i>JiYa</i>
83	1583	BHAVESH SUBHASH KHOBRAGADE	AB	<i>Bhavesh</i>
84	1584	PURVA SANJAY KOHAD	20	<i>Purva</i>
85	1585	VINARS NARAYAN PATLE	16	<i>Vinars</i>
86	1586	AYUSHI SIRSAT	18	
87	1587	ISHA KHADSE	15	
88	1588	TEJASVI HADGE	18	<i>Tejasvi</i>
89	1589	ASTHA NAGBHIDKAR	16	
90	1590	SEJWAL UIKEY	20	
91	1591	ABHILASHA MAHANT	18	

92/1592 Parmar Eshika Raju

Eshika

SSES Amravati's
SCIENCE COLLEGE, CONGRESS NAGAR NAGPUR
INTERNAL ASSESMENT-2023-24

50	1350	WAGHMARE ADITYA ANAND	20	
51	1351	WAGHMARE SAMIT KISHOR	16	
52	1352	WASNIK PRADNYA MANOJ	18	<u>No write</u>
53	1353	YAKAR SHRUSHTI RAJESH	15	
54	1354	ALONE DEVYANI ANAND	18	<u>Alone</u>
55	1355	ĀTRAM PRATIK JOGA	16	
56	1356	ATRAM UNNATTI SHASHIKANT	20	
57	1357	BHISE GAYATRI RAVI	AB	<u>G. R. Bhise</u>
58	1358	BORKAR SEJAL RAJESH	20	
59	1359	CHAPKE MOHINI SHANKAR	16	
60	1360	CHAUDHARY AYUSH SHRICHAND	18	
61	1361	CHAWHAN SAHIL PADMAKAR	15	
62	1362	CHIKRAM VAIDAVI ARVIND	18	
63	1363	DARODE ROHAN CHANDRASHEKHAR	16	
64	1364	DEHANKAR MANISHA SHASHIKANT	20	<u>Dehankar</u>
65	1365	DHANDE PRABUDHA PRADIP	AB	
66	1366	DUBEY POONAM SUSHIL	15	<u>Dubey</u>
67	1367	GAJBHIYE TANISHA VISHWAJIT	AB	<u>O.P.M. Borkar</u> <u>G.P.M. Borkar</u>
68	1368	GHATURLE GRISHMA VINOD	20	<u>Ghaturle</u>
69	1369	HEDAOO GAYATRI MANOJ	16	<u>Hedaoo</u>
70	1370	JADHAV TANUSHREE SUHAS	18	<u>Jadhav</u>
71	1371	KHAN INJILA NADIM	15	<u>Khan</u>
72	1372	KUKADE ASHLESHA DHANESH	18	
73	1373	LOKHANDE ANUSHKA PRAVIN	16	
74	1374	MAHAJAN BHUMI SUDHAKAR	20	
75	1375	MANDALE TANVI BABAN	AB	<u>Mandale</u>
76	1376	MANSURE SANYUKTA SANJAY	20	
77	1377	MASRAM SUHANI GANESH	16	<u>Masram</u>
78	1378	MOHABIYA KASAK KAMAL	18	<u>Mohabiya</u>
79	1379	NAGPURE GAYATRI TEJLAL	15	<u>Nagpure</u>
80	1380	PAWARE VANSHIKA RAJESHWAR	18	
81	1381	PENDRAM ANKIT DAYARAM	16	
82	1382	RAJPUT MADHURA CHANDRASHEKHAR	20	
83	1383	SAHOO ABHIPSHA BASANT KUMAR	AB	<u>Assigned</u>
84	1384	SHENDE KASAK PRAVIN	20	
85	1385	SHENDE KASHISH GOPAL	16	<u>Shende</u>
86	1386	SHENDRE VAISHALI NARENDRA	18	
87	1387	SOLANKI MOHAK HITESH	15	
88	1388	SORDE TANSHREE JAGDISH	18	<u>Sorde</u>
89	1389	SUTHAR SANGITA PUKHRAJ	16	<u>Sangita</u>
90	1390	TAMBUSKAR EKTA SANJAY	20	<u>Tambuskar</u>
91	1391	TICHKULE ALANKAR	18	
92	1392	UIKEY BHUVNESHWARI UMESH	15	
93	1393	VINCHURKAR KANAK ASHISH	18	
94	1394	WANJARI APEKSHA NAGSEN	16	
95	1395	WANKHEDE SHREYA DNYANESHWAR	20	
96	1396	YADAV DIPESH GYANESHWAR	18	<u>Yadav</u>
97	1397	YADAV SOUMYA SUNIL	15	<u>Yadav</u>
98	1398	ZADE AKANKSHA SANJAY	18	
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103	1403			

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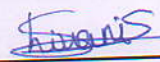

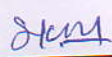

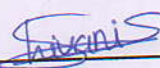

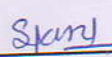


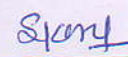
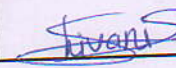


[Signature]
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Congress Nagar, Nagpur


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Department of Chemistry

Internal Assessment Record-PG- (CIE)-2023-24

Class	Paper	Teacher Name	Sign
Sem-I	Paper-I	S. S. Dhok	
	Paper-II	Shivani R. Sharma	
	Paper-III	Dr. Shubhangi Kere	
	Paper-IV	Dr. S. J. Kere	
Sem-II	Paper-I		
	Paper-II	Dr. S. J. Kere	
	Paper-III	Shivani R. Sharma	
	Paper-IV		
Sem-III	Paper-I		
	Paper-II	Sukanya B. Mishra	
	Paper-III	Dr. S. J. Kere	
	Paper-IV	Shivani R. Sharma	
Sem-IV	Paper-I	Sukanya B. Mishra	
	Paper-II	Sute	
	Paper-III	Dr. S. J. Kere	
	Paper-IV	Shivani R. Sharma	




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SSES Amravati's Science College, Congress Nagar Nagpur
Department of Chemistry

M.Sc Sem I- 2023-24 Total Marks: -20

Paper I (Inorganic Chemistry)

Unit Test No- 1 & 2 Mark list

Teacher Name: Dr. S.S. Dhote

Sr. No	Roll No.		Students Full Name	Unit Test I	Unit Test II
1		Ku	AAFREEN NIGAR ASIF IQBAL ----	15	14
2		Ku	GAURI PRADIP NASARE	20	AB
3			JANHVI UMESH FATING	19	15
4			KHUSHBU SOMESHWAR CHILBULE	18	16
5			LAXMI ANILRAO DHOBE	17	12
6			MAHEK DINESH SHINDE	15	14
7		Ku	MUSKAN SATENDRA KUMBHARE	18	18
8		Ku	NIDHI RADHESHYAM GUPTA	15	19
9		Ku	NIKHITA PANDHARI PIPARE	18	AB
10		Ku	PALLAVI PARAM BORKAR	19	13
11		Ku	PRADNYA ARVIND APTE	AB	20
12		Ku	PRANJU ASHOK AMBULE	20	18
13		Ku	ROHITA VISHNU PARDHI	14	16
14		Ku	SEJAL SUBHASH THENGE	15	18
15		Ku	SHABAHAT MD. IRFAN KHAN	18	14
16		Ku	TANAYA VINAYAK LANJEWAR	14	18
17		Ku	TANNU DINESH SINDURKAR	18	17



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Congress Nagar, Nagpur

SSES Amt's Science College, Congress Nagar, Nagpur

Department Of Chemistry

M.Sc. Chemistry Sem I

Theory (Inorganic Chemistry)

Session : 2023-24

Unit Test

Total Mark's -20

Attempt any 4

Q.1) What are isopoly and heteropoly acids ? How are they obtained ? Discuss in brief.

Q.2) What are the factors favouring M-M bonding ? Discuss the structure of $\text{RC}_2\text{Cl}_8^{2-}$.

Q.3) Give classification of metal clusters in detail by citing various examples of each type.

Q.4) Explain formation of delta bond in metal acetate clusters.

Q.5) What is styx number ? Sketch the possible topological structures of following in terms of styx number :

(i) B_2H_6

(ii) B_5H_{11}

(iii) B_4H_{10}

(iv) B_3H_9

SSES Amt's Science College, Congress Nagar, Nagpur

Department Of Chemistry

M.Sc. Chemistry Sem I

Theory (Inorganic Chemistry)

Session : 2022-23

Unit Test

Total Mark's -20

Attempt any 4

Q.1) What are basic assumptions of VSEPR theory? Using it, explain how the multiple bonds and back π -bonding affect the stereochemistry of molecules. Give one example of each.

Q.2) Discuss the Crystal Field Splitting in $[ML_4X_2]$ type complex using CFT.

Q.3) What are Heteropoly acids? Explain Pauling theory of Heteropoly acids.

Q.4) Write Preparation of Isopoly acid of Molybdenum.

Q.5) Describe Process for Synthesis of higher boranes by Pyrolysis of B_2H_6 in hot-cold reactor.