



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. 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.

**“Synthesis and Characterization
of V₂O₅ Nanomaterials”**

A project submitted to

RTM Nagpur University, Nagpur.

For the Degree of

Master of Science

Submitted By

Ms. Sadnya Arun Bhadang, M.Sc, Sem IV

Under the Supervision of


Dr. R. U Khope M.Sc., M.Phil, Ph.D.

Head and Professor,

Department of Chemistry



P.G. Department of Chemistry, SSES Amravati Science College,
Congress Nagar, Nagpur. 2022-2023


Professor & Head
Department of Chemistry,
Shri Shivaji Science College
Congress Nagar, Nagpur.

16

SSES Amt's Science College, Congress Nagar, Nagpur
Department Of Chemistry
Class:- MSc Chemistry Sem-I
Theory (Organic Chemistry)
Session-2022- 2023

Name of Teacher : Ms. Megha Tabhane

Sr. No	Roll		Students Full Name	Unit Test I
1		Ku	AACHAL SHRIDHAR WAYKAR	16
2			AMOL AJAY DIOTE	20
3			AMOL SHALIKRAM DHANKAR	19
4			CHAITANYA CHINTAMAN KOHAPARE	18
5		Ku	DIPALI NARENDRA DUDHE	17
6			GULSHAN NILESH GOLHAR	15
7		Ku	HARSHA DEVRAODAF	18
8		Ku	KANCHAN PRABHA SANTOSH	15
9		Ku	NATASHA RAJESH MAHAJAN	18
10		Ku	PRAJWAL PARASRAM CHACHERKAR	19
11		Ku	PRAKARSHA OMPRAKASH KHADSE	AB
12		Ku	PRANJALI RAMVIR SINGH	20
13		Ku	SAKSHI SHIVAJI MOHITE	14
14		Ku	SAKSHI VIJAY KOTHE	15
15		Ku	SAMIKSHA UMRAO BHUJADE	19
16		Ku	SANA SAGIR KHAN	14
17		Ku	SEJAL MAHENDRA BHARNE	18
18		Ku	SEJAL SANJAY BULKUNDE	18
19		Ku	SNEHAL YADORAO JIBHAKATE	15
20		Ku	TEJASWINI VITTHALRAO KATURE	17
21		Ku	TULIKA TAPASH BANERJEE	20
22		Ku	UTKARSHA SANJAY GAIDHANE	AB
23		Ku	VAISHNAVI CHANDRAKUMAR CHUTE	AB
24		Ku	VASUKI SURESH DABHANE	20



Megha Tabhane
 Assistant Professor
 Department of Chemistry
 S.S.E.S.A.'s Science College
 Nagpur

[Signature]
 Professor & Head
 Department of Chemistry,
 Shri Shivaji Science College
 Congress Nagar, Nagpur

**RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR**

Internal Marks Sheet

Name : SECOND SEMESTER BACHELOR OF SCIENCE (B.SC.)

Subject Name : CHEMISTRY (PAPER II)

College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE

Session : Summer-2023

Sr. No.	SEAT NO	ENROLLMENT NO	STUDENT NAME	Marks / Max 10
27	611981	-	ASHWINI UMESH BARASKAR	09
28	611983	-	ASTHA SATISH ANCHALWAR	07
29	611984	-	AVANI PREMDAS KALE	10
30	611985	-	AVANTI ANIRUDHA ZADGAONKAR	08
31	611986	-	AVANTIKA SHRIKANT MULEY	08
32	611987	-	AWANI PRASHANT KARWADE	07
33	611988	-	AWANTI SAHEBRAO KOTHALKAR	09
34	611990	-	AYUSHI MANOJKUMAR BAGDE	07
35	611991	-	BHAGYSHREE VILAS SHENDE	09
36	611992	-	BHARVI VIKAS CHAUDHARI	09
37	611993	-	CHETANA DINESH BHAIKARE	09
38	611995	-	CHETNA KAILAS DALVI	09
39	611996	-	CHETNA MORESHWAR KHADSE	10
40	611998	-	DAKSHITA SANJAY MADAN	08
41	611999	-	DEVASHREE BHURAO DHARMIK	09
42	612001	-	DEVYANI WALKER	09
43	612002	-	DHANASHREE DEEPAK MORE	09
44	612003	-	DHANASHREE VIKAS DALAL	09
45	612004	-	DIVYA SUDHAKAR MUDE	10
46	612005	-	DIVYA VIKAS GOSWAMI	10
47	612006	-	DIVYALI EKNATH MESHRAM	08
48	612007	-	DIVYAPRABHA SANJAYKUMAR	07
49	612008	-	DIYA DEEPAK BAGDE	08
50	612009	-	DURGA RAJU WALDE	08
51	612010	-	DURGESHWARI RAMPRASAD CHAUDHARI	08
52	612011	-	EKTA SANJAY KASEKAR	08

Professor & Head
Department of Chemistry,
Shri Shivaji Science College
Congress Nagar, Nagpur



CBZ			
BATCH B - 4			
1	Ku	KUKDE VAISHNAVI DILIPRAO	11
2	Ku	MARAPE PRANALI PRABHAKAR	03
3	Ku	MARASKOLHE PAYAL GANPAT	05
4	Ku	MEHTA PALAK KALPESH	04
5	Ku	MISHRA KHUSHI RAJIV	11
6		MOTGHARE ANMAY ARUN	15
7	Ku	NINAWA ASHLESHA DEEPAK	09
8	Ku	PACHPOHAR VRUSHALI GAJANAN	18
9	Ku	PANDURAR PRIYADARSHINI SHANKAR	17
10	Ku	PATIL CHAITALI SANDEEP	19
11	Ku	RAIPURE NANDINI BALU	15
12	Ku	RAUT NEHA ISHWAR	16
13	Ku	SHARMA AANCHAL ARVIND	17
14	Ku	SINGH RIYA HARIBANSH	14
15	Ku	SELOKAR NISHA DASHRATH	15
16	Ku	SHIVHARE FALGUNI SANKET	16
17	Ku	SONKUSARE KETKI NARESH	05
18	Ku	SUKHEJA TANISHA MAHENDRA	08
19	Ku	UCCHASARE PRATIKSHA CHANDRASHEKHAR	AA
20	Ku	WAGHMARE DHANSHIKA RAJKAMAL	14
21	Ku	WANKHEDE KRISHNA SATISH	12



P. S. S. S. A.
 Assistant Professor
 Department of Chemistry
 S.S.E.S.A.'s Science College
 Nagpur

Class:-M.Sc. Chemistry Sem I

Science College, Congress Nagar, Nagpur

9

Seminar

Department Of Chemistry
2022- 2023

Name of Teacher: Dr. S. J. Kene

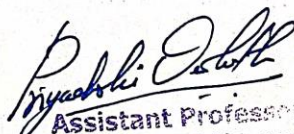
Sr. No		Students Full Name	Seminar Topic	Marks (25)
1	Ku	AACHALSHRIDHARWAYKAR	VSEPER-Shape of Simple inorganic molecules and ions containing lone pairs	20
2		AMOLAJAYDHOTE	Bent's rule and energetics of hybridization.	18
3	Ku	AMOLSHAIKRAMDHANKAR	CFT: Splitting of d-orbital in tetragonal, square planar and TBP complexes.	18
4	Ku	CHAITANYACHINTAMANKOHAPARE	MOT for Octahedral, Tetrahedral	24
5	Ku	DIPALINARENDRADUDHE	MOT for Square Planar Complex with and without π -bonding.	25
6	Ku	GULSHANNILESHGOLHAR	Aromatic Nucleophilic Substitution S_NAr , S_N1 , S_N2 mechanism.	25
7	Ku	HARSHADEVRAODAF	The Von Richter, Sommet-Hauser and related rearrangement in NGP.	23
8	Ku	KANCHANPRABHASANTOSHKUM	The arenium ion mechanism, Orientation and reactivity.	24
9	Ku	NATASHARAJESHMAHAJAN	Friedel-Crafts reaction, Vilsmeier-Hack reaction	15
10	Ku	PRAJWALPARASRAMCHACHERKAR	Gatterman-Koch Reaction, Pechman reaction	24
11	Ku	PRAKARSHADIPRAKASHKHADSE	Adsorption: Freundlich adsorption isotherm, Langmuir Theory.	22
12	Ku	PRANJALIRAMVIRISINGH	BET Theory and estimation of surface area.	20
13	Ku	SAKSHISHIVAJIMOHITE	Surface film on liquids and catalytic activity, Electrokinetic Phenomena.	25
14	Ku	SAKSHIVUJAYKOTHE	Critical Micelle Concentration (CMC), mass action model and phase	25
15	Ku	SAMIKSHAUMRAOBHUJADE	CMC Formation, Shape and structure of micelles, factors affecting CMC	21
16	Ku	SANASAGIRKHAH	Macromolecules: Definition, molecular mass determination by Osmometry.	25
17	Ku	SEJALMAHENDRABHARNE	Chromatography: Paper, Thin layer and Column	25
18		SEJALSANJAYBULKUNDE	Solvent Extraction	24
19	Ku	SNEHALYADORAJOJBHAKATE	Gravimetric Analysis	22
20	Ku	TEJASWINIVITHALRAOKATLURE	Volumetric Analysis	15
21	Ku	TULIKATAPASHBANERJEE	Conductometry	22
22	Ku	UTKARSHASANJAYGAIDHANE	Potentiometry	20
23	Ku	VAISHNAVICHANDRAKUMARCHUTE	Gatterman-Koch Reaction, Pechman reaction	22
24	Ku	VASUKISURESHDABHANE	Adsorption: Freundlich adsorption isotherm, Langmuir Theory.	25
25	Ku	VISHAKHASANJAYMISAL	BET Theory and estimation of surface area.	25

Skml
Assistant Professor
Department of Chemistry,
S.S.E.S. Am's Science College
Congress Nagar, Nagpur.



SKW
Professor & Head
Department of Chemistry,
Shri Shivaji Science College
Congress Nagar, Nagpur.

32	Ku	TAIKAR JANHAVI GANESH	10
33	Ku	TANDEKAR RITIKA MANOHAR	15
34	Ku	UDAN DIMPLE HRUDAYNATH	14
35	Ku	VICHORE GARGEE DATTAPRASANNA	18
36	Ku	VISHWAKARMA SHWETA VIRENDRAKUMAR	11
37	Ku	WADETTIWAR JANVI RAJENDRRA	12
38		WAGHMARE HARSH RAMU	12
39	Ku	WASNIK ROHINI NARESH	15


Assistant Professor
Department of Chemistry
S.S.E.S.A.'s Science College
Nagpur



A project report on
Soil analysis different regions of Kuhi (Nagpur)

Submitted to
Rashtrasant Tukdoji Maharaj, Nagpur University (RTMNU)

For the degree of
Master of Science (M.Sc.)

Submitted by
Bhagyashree Shivshankar Bokde

Under the supervision of

Dr. P. S. Utale

Professor

MSc. Ph. D



Department of Chemistry
Shri. Shivaji Education Society Amravati's
Science College,
Congress Nagar, Nagpur
2022 – 2023

**RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR**

Internal Marks Sheet

Course Name : SECOND SEMESTER BACHELOR OF SCIENCE (B.SC.)
Subject Name : CHEMISTRY (PAPER II)
College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE
Session : Summer-2023

Sr. No.	SEAT NO	ENROLLMENT NO	STUDENT NAME	Marks / Max 10
53	612013	-	FALGUNI SANDIP SHRIRAME	09
54	612014	-	FATMA AKRAM ALI PATEL NADIYA	07
55	612015	-	GARIMA WAMANRAO CHADOKAR	09
56	612016	-	GAURI ATUL KALE	10
57	612017	-	GAYATRI TEJRAM UIKEY	10
58	612018	-	GRECY CHANDU JIWANE	09
59	612019	-	GRISHMA JAYPAL PATIL	10
60	612020	-	GUNGUN LAXMAN WASNIK	08
61	612022	-	HARSHADA RAJESH LONDE	09
62	612023	-	HARSHADA WASUDEV CHIKHALKAR	10
63	612024	-	HARSHAL DILIP UPADHYE	09
64	612025	-	HARSHINI ARVIND KOLHE	09
65	612026	-	HEMAKSHI MAHESHKUMAR KUTHE	09
66	612028	-	HIMANSHI VIJAY MEHAR	10
67	612029	-	HITALI PADMAKAR RAMTEKE	09
68	612030	-	HUMERA AFROZ NASIR SHEIKH	10
69	612031	-	HURMAIN MOHD IRFAN SANIYA	07
70	612034	-	ISHA SURAJ JOGANI	10
71	612035	-	ISHIKA AMARNATH PANDEY	10
72	612036	-	ISHIKA MANISH AMBOLIKAR	09
73	612037	-	ISHIKA SUBHASH TODASE	09
74	612038	-	ISHITA CHANDRASHEKHAR RAMTEKE	09
75	612039	-	JANHAVI MILIND BIRE	09
76	612040	-	JANHAVI PRAMOD LONARKAR	07
77	612041	-	JANHAVI VIRENDRA DESHMUKH	09
78	612043	-	JANHVI PRASHANTRAO MEDHILWAR	07

[Signature]
 Professor & Head
 Department of Chemistry,
 Shri Shivaji Science College,
 Congress Nagar, Nagpur

[Signature]



CBM			
BATCH B - 2			
1	Ku	ANAND AKANKSHA SANKET	11
2	Ku	ATRAM HIMANSHI SANJAY	14
3	Ku	BHANGE ASTHA RAMESH	15
4	Ku	BHATKULKAR SHAMAL DILIP	18
5		BHONGADE VEDANT SUDHIR	17
6	Ku	DAHAYAT ISHA RAJENDRA	19
7	Ku	DEKAPURKWAR SHIVAM ATUL	16
8	Ku	DHENGE KIRAN SUNIL	15
9	Ku	GALBALE DIKSHITA RAMDAS	14
10	Ku	JADHAO EKTA LOKCHAND	15
11	Ku	JADHAV ASHLESHA AVINATH	15
12	Ku	KALAMKAR SNEHAL SURESH	15
13	Ku	KALOSHIYA DEVYANI DHARAM	AA
14	Ku	KAYARKAR JANHVI HEMANT	15
15		KHADE MOHIT RAMNATH	14
16	Ku	LONARE ISHA LAXMAN	11
17	Ku	MENDHULE KASTURI PRAKASH	12
18	Ku	MOREY AKSHADA SATISHRAO	12
19	Ku	NASARE GAURI PRADIP	13
20	Ku	PATIL SANJEEVINI DIWAKAR	11
21		RAI AYUSHI ADHIKESH	AA
22	Ku	RAMTEKE PREKSHA PRAKASH	14
23	Ku	SHAHU BHAGYASHREE DILIP	14
24	Ku	SHAH RAGINI RADHESHYAM	15
25	Ku	ANAND AKANKSHA SANKET	16
26	Ku	ATRAM HIMANSHI SANJAY	15
27	Ku	BHANGE ASTHA RAMESH	18
28	Ku	BHATKULKAR SHAMAL DILIP	19
29		BHONGADE VEDANT SUDHIR	17
30	Ku	DAHAYAT ISHA RAJENDRA	11
31	Ku	DEKAPURKWAR SHIVAM ATUL	12
32	Ku	DHENGE KIRAN SUNIL	15
33	Ku	GALBALE DIKSHITA RAMDAS	12
34	Ku	JADHAO EKTA LOKCHAND	11
35	Ku	JADHAV ASHLESHA AVINATH	16
36	Ku	KALAMKAR SNEHAL SURESH	14
37	Ku	KALOSHIYA DEVYANI DHARAM	11
38	Ku	KAYARKAR JANHVI HEMANT	15
39		KHADE MOHIT RAMNATH	14
40	Ku	LONARE ISHA LAXMAN	18
41	Ku	MENDHULE KASTURI PRAKASH	19
42	Ku	MOREY AKSHADA SATISHRAO	17
43	Ku	NASARE GAURI PRADIP	15



P. S. S. S. S.
 Assistant Professor
 Department of Chemistry
 S.S.E.S.A.'s Science College
 Nagpur



RASHTRASAT TUKADOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR

Internal

3

Internal Marks Sheet

Sem II Paper II

Exam Name : SECOND SEMESTER BACHELOR OF SCIENCE (B.SC.)

Subject Name : CHEMISTRY (PAPER II)

College Name : (100) SHRI SHIVAJI SCIENCE COLLEGE

Session : Summer-2023

Sr. No.	SEAT NO	ENROLLMENT NO	STUDENT NAME	Marks / Max 10
1	611943	-	AACHALDINESH NITNAWARE	07
2	611944	-	AARADHANA RAJENDRA BHASMOTE	08
3	611945	-	AARTI LAXMAN ANDRASKAR	07
4	611946	-	AARTI OMSHANKAR BAGHELE	10
5	611947	-	AASAWARI PRABHANJAN NAIKWADE	10
6	611948	-	ACHAL ANUJ TIWARI	07
7	611950	-	AISHWARYA PRAKASH MENDWADE	10
8	611951	-	AISHWARYA SUNIL TINKHEDE	10
9	611953	-	AKANSHA VIJAY SHINDE	09
10	611955	-	ALIYA AFTAB	08
11	611956	-	AMBIKA AMIT SINGH	07
12	611958	-	ANCHAL ANOOP BOLE	08
13	611959	-	ANJALI DEVISHANKAR TRIVEDI	07
14	611960	-	ANJALI VISWAS BANSOD	08
15	611961	-	ANSHUL SANJAY SINGH	07
16	611963	-	ANURADHA ARUN BHAGAT	10
17	611964	-	ANURADHA RAJABHAU PHAD	09
18	611965	-	ANUSHKA AMAR PALANDURKAR	08
19	611966	-	ANUSHKA ANIL GANVIR	07
20	611967	-	ANUSHKA DEVIDAS CHANGOLE	08
21	611971	-	APURVA TAPAN SAHU	10
22	611972	-	ARNIKA SUSHILKUMAR NIMJE	08
23	611973	-	ARPITA KISHOR GAJBHIYE	08
24	611974	-	ARYA ARUN WUIKEY	09
25	611976	-	ARYA VIKAS KUNDARPAWAR	10
26	611980	-	ASHWINI RAVI NAHATE	08

Professor & Head
Department of Chemistry,
Shri Shivaji Science College
Congress Nagar, Nagpur

P. N. Deshpande



**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of Geology
Class :- B. Sc. I (Semester-I)
Session: - 2022 - 2023
Unit Test I**

Name of the Teacher: - A. D. Fuladi

Date: 11/10/2022

Subject :- Geology (Paper- I)

Batch :- G – 1 (CGM)

Sr. No	Students Full Name	Unit Test Marks (out of 20)
1	ANDRASKAR AARTI LAXMAN	18
2	BAGHEL AARTI OMSHAKAR	12
3	BOMBARDE SHREYAL VIJAY	24
4	BHONGDE KUNALI SATISH	12
5	CHOUDHARI NANDINI DINKAR	12
6	DHARMIK DEVASHREE BHURAO	20
7	DHOKE SANJANA ANKUSH	AA
8	DHUDSE ADITYA RITESH	8
9	GUDADHE VINA DILIP	15
10	KALE SUMATI SANJAY	13
11	KHARE JATIN SURESH	20
12	KUMRE TANISHKA VIDYASAGAR	14
13	KUSARE SHRAVANI SUNIL	17
14	KOSEKAR KOMAL KISANA	19
15	MEHAR HIMANSHI VIJAY	13
16	MISHRA ISHA NARENDRA	16
17	MOURYA MONALI ANIL	17
18	NANDANWAR SALONI ARUN	AA
19	NEMADE RAM ARUN	AA
20	PATEWAR SHARVARI MANIKRAO	11
21	RAUT MOHINI MANOHAR	13
22	SAWARKAR SWAYAM KISHOR	15
23	UIKEY KRITIKA YOGESH	16
24	WAHALE PRESHIT RAJESH	18
25	WANKHEDE SNEHAL SANJAY	19
26	WANKAR NANDINI LAXMAN	AA

Subject :- CBG Batch :- G – 2

Sr. No	Students Full Name	Unit Test Marks (out of 20)
--------	--------------------	--------------------------------

1	ADMANE SNEHAL AVINASH	12
2	ANCHALWAR ASTHA SATISH	AA
3	BANSOD ANJALI VISWAS	12
4	BEDADE MANISHA JANARDAN	13
5	BOPCHE PAYAL NANDKISHOR	14
6	DAHAKA MAYURI DEVENRA	13
7	GAWANDE NIDHI NARENDRA	12
8	KAMBLE SAYALI CHANDRAPAL	15
9	LONARKAR NANHAVI PRAMOD	16
10	MANWARKAR AAHAN DEEPAK	17
11	MESHARAM PRADNYA RAJKUMAR	19
12	MOHAMMED SAHIL ANWAR	20
13	MULEY AVANTIKA SHRIKANT	AA
14	NARNAWARE SAKSHI ANIL	AA
15	NIMJE ARNIKA SUSHILKUMAR	20
16	NINAWA SAKSHI GAURISHANKAR	12
17	PAGARE JUHI SURENDRA	12
18	PHAD LAXMAN RAJABHAU	15
19	RAJANKAR RADHIKA MOHAN	17
20	RAMTEKE HITALI PADMAKAR	15
21	RANGARI YASHIKA SUSHIL	16
22	SALVE SAKSHI NITIN	17
23	SHENDE SANJANA PRAMOD	18
24	SHINDE DNYANESH SHIVRAJ	12
25	SINGH ANSHUL SANJAYKUMAR	11
26	SURYAWANSHI VAISHNAVI RAMKRUSHNA	AA
27	TEMBHURNE MANODNI ARVIND	13
28	UIKE VIDYA MAROTRAO	16
29	UIKEY GAYATRI TEJRAM	17
30	WAHANE KOMAL DEVANAND	13

Subject :- PCG Batch :- G – 3

Sr. No	Students Full Name	Unit Test Marks (out of 20)
1	ADHAU PURVA PRAMOD	12
2	BAGDE AYUSHI MANOJKUMAR	14
3	BAGHEL RIYA KISHOR	17
4	BAHORIYA KARAN NARESH	18
5	BHUJADE SAKSHI BABLU	19

6	BHOUTKAR HARSH PRAKASH	20
7	CHARUTKAR VANSH PRAMOD	16
8	CHAVHAN VAISHNAVI SAHEBRAO	17
9	CHOUDHARI DURGESHWARI RAMPRASAD	18
10	DHORE SADICHCHHA DILIP	15
11	DUNDE SHRUTI PRATIK	14
12	GAJBHIYE SAMIKSHA ANKUSH	17
13	GOUTIYA MUSKAN JAGDISH	AA
14	GUPTA KSHITIJ ADITYASHEKHAR	19
15	HAJARE POOJA RAJU	14
16	INGLE NISHCHAL SHILPA	13
17	JANGLE VAISHNAVI ROSHAN	16
18	KUNDARPAWAR ARYA VIKAS	17
19	MADAVI DHARUV BHUPENDRASHAHA	15
20	MASKHARE MAYUR PRASHANT	AA
21	MESHARAM MUSUM SUDHAKAR	19
22	NIMBADE SHAKSHI PRAKASH	20
23	NITNAWAARE AACHAL DINESH	13
24	PAWAR SUMAN SHEMEKHIL	14
25	PALANDURKAR ANUSHKA AMAR	12
26	PATIL ROHIT SACHIN	12
27	SHEIKH MANTESHA TABASSUM	AA
28	SURYAWANSHI ASMITA ARUN	AA
29	TUPAT MAYURI RAJESH	13
30	WUIKEY ARYA ARUN	16

Awadi
Signature of Teacher



Amavale
Head
HEAD
Department of Geology
S. S. E. S. Amravati's
Science College, Nagpur.

Bachelor of Science (B.Sc.) Semester—I Examination 2022
GEOLOGY (Introduction to Geology)
Unit Test -1
Semester I Paper—I

Time : Three Hours]
Date:11-10-2022

Maximum Marks : 20

Note :— (1) All questions are compulsory and carry equal marks.
 (2) Draw neat sketches wherever necessary.

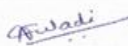
1. (A) Give an account of Inner Planets of the Solar system. (10 marks)

OR


(B) What are earthquakes? Describe various causes and effects of earthquakes.

2. Write about the following in not more than two lines (any 5) (10 marks)

- I. Troposphere
- II. Remote Sensing
- III. Mantle of the Earth
- IV. Ring of fire
- V. Artificial radioactivity


 Signature of Teacher




 Head
 HEAD
 Department of Geology
 S. S. E. S. Amravati's
 Science College, Nagpur.

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - I**

**Name of Teacher: Mr. M. T. Wanjari
Subject: Programming in Java (Paper-II)**

**Date: 03/10/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	12
2.	Aishwini Arun Naranje	AB
3.	Amisha Sanjay Devtale	06
4.	Aniket Ashok Jadhao	05
5.	Anjali Pradeep Fender	07
6.	Ankush Shambharkar	08
7.	Ashish Sudhir Waikar	12
8.	Divyani Sureshrao Chandore	09
9.	Hemlata Sahebrao Sawankar	10
10.	Kanchan Wasudeo Gondhale	12
11.	Leena Siddharth Dupare	15
12.	Manisha Mahadeora Ingole	09
13.	Mrunali Prakash Vaidya	AB
14.	Nikhil Manoj Gharat	08
15.	Nikhil Sjanlal Gupta	04
16.	Nikhil Vanraj Tembhone	06
17.	Payal Ganesh Shahu	10
18.	Payal Yashwant Sharnagat	11
19.	Prachi Rameshrao Wasake	08
20.	Pranali Raju Watane	08
21.	Pratik Vijay Pahade	09
22.	Preeti Ajaykumar Rai	11
23.	Rashmi Chandrashekhar Ashtankar	10
24.	Rasika Ganesh Taralekar	11
25.	Riya Ajay Rai	12
26.	Rutuja Vinod Chavhan	07
27.	Sakshi Prakash Manapure	10
28.	Samruddhi Sanjay Telang	09
29.	Sarang Ishwar Dhanorkar	07
30.	Saumya Prabhakar Dakhole	06

35.	Sparsh Vijay Gajbhiye	16
36.	Swati Dilip Isad	18
37.	Tanu Subhash Sangole	Absent



Signature of the Teacher



Head

Department of Computer Science

Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M.Sc. Semester-I (Computer Science) Session 2022-2023
Discrete Mathematical Structure (Paper I)
Unit Test II**

Time: 1 hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- | | |
|---|---|
| A. Explain Hamiltonian Paths and Circuits ? | 8 |
| B. Explain Semigroups & Groups? | 8 |
| C. Explain the Lattices Finite theorem? | 8 |
| D. Explain Undirected Tree? | 8 |

Q2. Answer the Following (Any 1)

- | | |
|---|---|
| A. Explain Binary Operations in detail? | 4 |
| B. What is minimal spanning tree? | 4 |
| C. Explain the state machine? | 4 |



Signature of the Teacher



Head

Department of Computer Science

Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - II**

Name of Teacher: Ms. M. S. Hingle

Date: 09/12/2022

Subject: Discrete Mathematical Structure (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	16
2.	Aishwini Arun Naranje	Absent
3.	Amisha Sanjay Devtale	12
4.	Aniket Ashok Jadhao	11
5.	Anjali Pradeep Fender	16
6.	Ankush Shambharkar	13
7.	Ashish Sudhir Waikar	17
8.	Divyani Sureshrao Chandore	12
9.	Hemlata Sahebrao Sawankar	13
10.	Kanchan Wasudeo Gondhale	12
11.	Leena Siddharth Dupare	18
12.	Manisha Mahadeorao Ingole	17
13.	Mrunali Prakash Vaidya	17
14.	Nikhil Manoj Gharat	Absent
15.	Nikhil Sjanlal Gupta	14
16.	Nikhil Vanraj Tembhone	13
17.	Payal Ganesh Shahu	17
18.	Payal Yashwant Sharnagat	12
19.	Prachi Rameshrao Wasake	13
20.	Pranali Raju Watane	12
21.	Pratik Vijay Pahade	13
22.	Preeti Ajaykumar Rai	Absent
23.	Rashmi Chandrashekhar Ashtankar	18
24.	Rasika Ganesh Taralekar	17
25.	Riya Ajay Rai	Absent
26.	Rutuja Vinod Chavhan	10
27.	Sakshi Prakash Manapure	16
28.	Samruddhi Sanjay Telang	17
29.	Sarang Ishwar Dhanorkar	Absent
30.	Saumya Prabhakar Dakhole	18
31.	Sejal Ranjendra Raut	17
32.	Shubham Arunrao Bambode	Absent
33.	Shweta Suresh Vaidya	16
34.	Simaran kadbe	13

35.	Sparsh Vijay Gajbhiye	18
36.	Swati Dilip Isad	16
37.	Tanu Subhash Sangole	Absent



Signature of the Teacher



Head

Department of Computer Science

Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M.Sc. Semester-I (Computer Science) Session 2022-2023
Discrete Mathematical Structure (Paper I)
Unit Test - I**

Time: 1 hour]

[Maximum Marks:20

Q1. Answer the Following (Any 2)

- | | |
|--|---|
| A. Explain all Normal Forms? | 8 |
| B. Explain the pigeonhole Principle ? | 8 |
| C. Explain Logical proposition & Logical operations? | 8 |
| D. Explain the Warshall's Algorithms with example ? | 8 |

Q2. Answer the Following (Any 1)

- | | |
|---|---|
| A. Write the operations on sets with example? | 4 |
| B. Write the Recurrence Relations? | 4 |
| C. Write the Equivalence Relations? | 4 |



Signature of the Teacher



Head

Department of Computer Science

Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - I**

Name of Teacher: Ms. M. S. Hingle

Date: 07/10/2022

Subject: Discrete Mathematical Structure (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	17
2.	Aishwini Arun Naranje	12
3.	Amisha Sanjay Devtale	16
4.	Aniket Ashok Jadhao	17
5.	Anjali Pradeep Fender	Absent
6.	Ankush Shambharkar	16
7.	Ashish Sudhir Waikar	16
8.	Divyani Suresh Rao Chandore	13
9.	Hemlata Sahebrao Sawankar	13
10.	Kanchan Wasudeo Gondhale	16
11.	Leena Siddharth Dupare	Absent
12.	Manisha Mahadeorao Ingole	12
13.	Mrunali Prakash Vaidya	11
14.	Nikhil Manoj Gharat	16
15.	Nikhil Sjanlal Gupta	13
16.	Nikhil Vanraj Tembhumne	17
17.	Payal Ganesh Shahu	12
18.	Payal Yashwant Sharnagat	13
19.	Prachi Ramesh Rao Wasake	12
20.	Pranali Raju Watane	18
21.	Pratik Vijay Pahade	17
22.	Preeti Ajaykumar Rai	17
23.	Rashmi Chandrashekhar Ashtankar	Absent
24.	Rasika Ganesh Taralekar	14
25.	Riya Ajay Rai	13
26.	Rutuja Vinod Chavhan	17
27.	Sakshi Prakash Manapure	12
28.	Samruddhi Sanjay Telang	13
29.	Sarang Ishwar Dhanorkar	12
30.	Saunhya Prabhakar Dakhole	13
31.	Sejal Ranjendra Raut	16
32.	Shubham Arun Rao Bambode	18
33.	Shweta Suresh Vaidya	17
34.	Simaran Kadbe	Absent

31.	Sejal Ranjendra Raut	08
32.	Shubham Arunrao Bambode	04
33.	Shweta Suresh Vaidya	10
34.	Simaran Kadbe	16
35.	Sparsh Vijay Gajbhiye	15
36.	Swati Dilip Isad	13
37.	Tanu SubhashS angole	12



Signature of the Teacher



Head
Department of Computer Science

Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2022-23
Master of Science (M. Sc.) Semester – I (Computer Science)
Programming in Java (Paper-II)
Unit Test – I

Time: 1 Hour]

[Maximum Marks: 20

Q. 1 (Solve any two question)

- A. Describe the Primitive and Non-primitive data types with suitable example. 8
- B. What is virtual function? Can we call a virtual function in a constructor?
Explain. 8
- C. How many types of inheritance does java support without interfaces? Explain with sample program. 8
- D.Explain the life cycle of thread. 8

Q. 2 (Solve any one question)

- A. Define an array. Why are they needed? 4
- B. Explain java Features in details. 4
- C. What is controls statements? 4



Signature of the Teacher



Head
Department of Computer Science

Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Mathematics
M.Sc I Semester I
Paper-II Real Analysis-I
Unit Test-I
Date: 2nd Sept. 2022**

Duration : 1 Hour]

[Max mark: 25 Marks

Attempt Any ONE questions**UNIT-I**

1. (a) State and prove the Stone-Weierstrass theorem. 10
- (b) For $n = 1, 2, 3, \dots$, x real, put $f_n(x) = \frac{x}{1 + nx^2}$. Show that $\{f_n\}$ converges uniformly to a function f and that the equation $f'(x) = \lim_{n \rightarrow \infty} f'_n(x)$ is correct if $x \neq 0$, but false if $x = 0$. 10
2. (a) If $\{f_n\}$ is a pointwise bounded sequence of complex functions on a countable set E , then prove that $\{f_n\}$ has a subsequence $\{f_{n_k}\}$ such that $\{f_{n_k}(x)\}$ converges for every $x \in E$. 10
- (b) Show that a convergent series :


$$\sum_0^{\infty} f_n(x) = \sum_0^{\infty} \frac{x^2}{(1+x^2)^n}, \quad (x \text{ real}), \quad n = 0, 1, 2, 3, \dots$$

is a continuous function may have discontinuous sum. Further show that the sequence $\{f'_n\}$ does not converge to f' , where :


$$f_n(x) = \frac{\sin nx}{\sqrt{n}}, \quad (x \text{ real}), \quad n = 1, 2, 3, \dots \quad 10$$

COMPULSORY

3. (a) Define Uniform convergence series and partial derivatives 05


Signature of teacher





Head of the department
HEAD
Department of Mathematics
Science College, Congress Nagar,
NAGPUR.

SHRI SHIVAJI EDUCATION SOCIETY AMARAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
 Department of Mathematics
 M.Sc. I Semester -I (2022-23)
 Mathematics Paper-1 UNIT TEST on UNIT II
 Result of Unit Test Held on 1st Sept 2022
 Name of Teacher: Chanchal Jain

Paper-I : Algebra-I		
Sr. no.	Name of Student	Marks Out of 25
1	Abhishek Yadav	15
2	Ku. Amavali Arun Patil	8
3	Ku. Darshana S. Mude	AA
4	Ku. Divya Bandu Ahirkar	AA
5	Ku. Gunjan Shivprakash Sharma	8
6	Ku. Karishma Babulaji Pandhare	22
7	Lalit Ramchandra Rajgire	10
8	Ku. Neha Vinod Manmode	25
9	Ku. Prachi Harichandra Meharkule	15
10	Ku. Priti Dinesh Patle	8
11	Ku. Priya Bimalkumar Maity	0
12	Ku. Renu Kishor Patne	10
13	Ku. Sakshi A. Sontakke	25
14	Shrikant L. Tripathi	0
15	Shubham Shankar Hulke	10
16	Ku. Shubhangi Totaramji Barde	25
17	Ku. Sweta Ashok Upase	15
18	Ku. Tanushree Devaji Bhujade	8
19	Ku. Trupti Arun Akhare	AA


 Signature of teacher




 Head of the department
HEAD
 Department of Mathematics
 Science College, Congress Nagar,
 NAGPUR.

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Mathematics
M.Sc-I Semester-I
Paper-I Algebra-I
Unit Test-II
Date: 1st Oct 2022**

Duration: 1 Hour]

[Max mark: 25 Marks

Attempt Any ONE questions

1. (a) Define a Euclidean Domain. Show that the ring of Gaussian integers $R = \{ m + n-1; m, n \in \mathbb{Z} \}$ is a Euclidean Domain. (10)

(b) State and prove Jordan-Holder theorem. Also show that this theorem implies the fundamental theorem of arithmetics. (10)

OR

2. (a) In a Euclidean Domain R , if $d = (a, b)$, then show that there exists $\mu, \lambda \in R$ such that $d = \lambda a + \mu b$. (10)

(b) Show that ring of Gaussian integers is an Euclidean domain. (10)

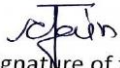
Compulsory Questions

3. (a) Show that every nilpotent group is solvable. (05)

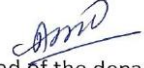


SHRI SHIVAJI EDUCATION SOCIETY AMARAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
 Department of Mathematics
 M.Sc. I Semester -I (2022-23)
 Mathematics Paper-1 UNIT TEST on UNIT I
 Result of Unit Test Held on 1st Sept 2022
 Name of Teacher: Chanchal Jain

Paper-I : Algebra-I		
Sr. no.	Name of Student	Marks Out of 25
1	Abhishek Yadav	0
2	Ku. Amavali Arun Patil	10
3	Ku. Darshana S. Mude	8
4	Ku. Divya Bandu Ahirkar	10
5	Ku. Gunjan Shivprakash Sharma	10
6	Ku. Karishma Babulaji Pandhare	25
7	Lalit Ramchandra Rajgire	22
8	Ku. Neha Vinod Manmode	22
9	Ku. Prachi Harichandra Meharkule	0
10	Ku. Priti Dinesh Patle	10
11	Ku. Priya Bimalkumar Maity	8
12	Ku. Renu Kishor Patne	22
13	Ku. Sakshi A. Sontakke	22
14	Shrikant L. Tripathi	8
15	Shubham Shankar Hulke	22
16	Ku. Shubhangi Totaramji Barde	22
17	Ku. Sweta Ashok Upase	0
18	Ku. Tanushree Devaji Bhujade	10
19	Ku. Trupti Arun Akhare	8


 Signature of teacher




 Head of the department
HEAD
 Department of Mathematics
 Science College, Congress Nagar,
 NAGPUR.

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Mathematics
M.Sc I Semester I
Paper-I Algebra-I
Unit Test-I
Date: 1st Sept 2022**

Duration : 1 Hour]

[Max mark: 25 Marks

Attempt Any ONE questions

1. (a) Find the different necklaces with p beads, (p -prime), where the beads can have any n different colour. (10)
- (b) If G is a finite cyclic group of order n , then show that the order of $\text{Aut}(G)$, the group of automorphisms of G is $\Phi(n)$ (10)

OR

2. (a) Define symmetric group of a non empty set, and group of symmetries of a set of points. Obtain the group of symmetries of an equilateral triangle and a square. (10)
- (b) Define a complete group. Show that the symmetric group S_3 is complete group. (10)

Compulsory Questions

3. (a) State the following theorem : (05)
1. First isomorphism theorem
 2. Second isomorphism theorem
 3. Third isomorphism theorem.

 Signature of teacher		 Head of the department HEAD Department of Mathematics Science College, Congress Nagar, NAGPUR.
---	---	---

SHRI SHIVAJI EDUCATION SOCIETY AMARAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

Department of Mathematics
 M.Sc. I Semester -I (2022-2023)

Mathematics Paper-2 UNIT TEST on UNIT I


Result of unit test held on 2nd Sept. 2022

Name of Teacher: Chanchal Jain

Paper II : Real Analysis –I		
Sr. no.	Name of Student	Marks Out of 25
1	Abhishek Yadav	15
2	Ku. Amavali Arun Patil	8
3	Ku. Darshana S. Mude	AA
4	Ku. Divya Bandu Ahirkar	AA
5	Ku. Gunjan Shivprakash Sharma	8
6	Ku. Karishma Babulaji Pandhare	22
7	Lalit Ramchandra Rajgire	10
8	Ku. Neha Vinod Manmode	25
9	Ku. Prachi Harichandra Meharkule	15
10	Ku. Priti Dinesh Patle	8
11	Ku. Priya Bimalkumar Maity	0
12	Ku. Renu Kishor Patne	10
13	Ku. Sakshi A. Sontakke	25
14	Shrikant L. Tripathi	0
15	Shubham Shankar Hulke	10
16	Ku. Shubhangi Totaramji Barde	25
17	Ku. Sweta Ashok Upase	15
18	Ku. Tanushree Devaji Bhujade	8
19	Ku. Trupti Arun Akhare	AA


 Signature of teacher




 Head of the department
HEAD
 Department of Mathematics
 Science College, Congress Nagar,
 NAGPUR.

②

SSES Amravati's Science College, Congress Nagar Nagpur
Department of Chemistry
B.Sc Sem V- 2022-23 - Section C
Paper II (Physical Chemistry)
Unit Test No- II

15/10/2022

CZM			
BATCH B - 1			
1	Ku	BHAISARE VISHWANI VILAS	12
2	Ku	BHINGARE VAIDEHI HEMANT	15
3	Ku	BHUSARI ANJALI SHAMRAO	14
4	Ku	BHUSARI PRANMAYI RAJESH	18
5	Ku	BODLE PRATHMESH VIJAYGIR	17
6	Ku	CHAKRAPANI RUCHITA SANJAY	19
7	Ku	CHAKRE AKANSHA SANJEEV	10
8	Ku	CHEWLANI ISHITA MAHESH	11
9	Ku	DAMEDHAR APURVA ANILRAO	18
10	Ku	DIBINA DINAKARAN	19
11	Ku	DIXIT SHRISHTI ARVIND	20
12	Ku	GHODMARE SANSKRUTI SURESH	AA
13	Ku	HATWAR HRUSHIKA SURESH	14
14	Ku	JAHAGIRDHAR TARINI SACHIN	15
15	Ku	JICHKAR SHARVARI VITTHALRAO	16
16		JOSHI SAAE MAHESH	11
17	Ku	KAKDE AASHLESHA NARESH	12
18	Ku	KALKOTWAR NIMISHA RAJESH	18
19	Ku	KOLHE SANSKRUTI PRADIP	14
20	Ku	KORKE MANSI RAM	19
21	Ku	MANKAR DHANSHRI VINOD	16
22	Ku	MADAVI YUKTA RAJU	15
23	Ku	MUTE TEJASWINI RAJU	14
24	Ku	NIKHARE BHAIRAVI MOHANRAO	AA
25	Ku	NIMBHORKAR SUSHANT SUNIL	AA
26	Ku	PAIKMARE RIYA SANJAY	14
27	Ku	PATANKAR PURVA RAJESH	15
28	Ku	RAO P TWINKLE VENUGOPAL	16
29	Ku	SAHU SALONI KASHINATH	15
30	Ku	SARWE ISHA SHUKHDEO	15
31	Ku	SHAIKH ARSHIYA MUSHTAQUE	11



(Signature)
Assistant Professor
Department of Chemistry
S.S.E.S.A.'s Science College
Nagpur