

Unit Test (Physical Chemistry Paper II)


B.Sc. II Sem-III

Dt. 10/10/2023

Total Marks 20






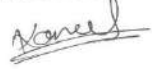



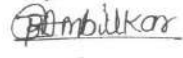
1. Define following terms with examples. 4
 - a) Osmotic Pressure
 - b) Molarity of solution
 - c) Van't Hoff factor
 - d) Half life period
2. State and explain Raoult's law. 3
3. Derive the relation between molecular wt. of solute and elevation of boiling point. 3
4. Explain Collision theory of bimolecular reaction. 3
5. How the osmotic pressure measured by Berkeley and Hartley method? 3
6. Explain Integration method and Ostwald's Dilution method for determination of order of reaction. 4


Dr. L.S. Ladke
PRINCIPAL
N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur


(Dr. K.P. Jyomale)

B.Sc. II Sem III (Physical chemistry) TM (20)

Unit Test

Name of students	Signature	Marks
1) Anamika L. Choudhary		18
2) Hemangi shete		12
3) Ragini Nikhade		14
4) Vishvarupa karlekar		15
5) Maheshwari kale		15
6) Komal Jangapalli		16
7) Gayatri Shah		12
8) Trypti Bagle		13
9) Anushri zormure		14
10) Tejaswini Ambilkar		14


 Dr. L.S. Ladke
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 N.S. Science & Arts College
 Bhadrawati, Dist-Chandrapur

Unit Test (Physical Chemistry Paper II)

B.Sc. I Sem-II

Thermodynamics

Dt. 08/04/2024

Total Marks 20

- | | |
|--|------------|
| 1. Define following terms with examples. | 8 M |
| a) Isolated system | |
| b) Adiabatic Process | |
| c) Isochoric Process | |
| d) First law of Thermodynamics | |
| 2. Explain Joule's Thomson effect with diagram | 4 M |
| 3. Explain in detail Hess's law of Heat Summation | 4 M |
| 4. Describe in brief Carnot Cycle | 4 M |



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Bsc 1st year sem-II Unit test on Physical chemistry Tm (20)

Date:- 21-12-2023

1)	Gayatri Ashok parashire	12	gayatri P
2)	Isha V. Ingole	11	I.v. Ingole
3)	Pooja Sawasakade	14	Sawasakade
4)	Rupali Sawasakade	14	R. Sawasakade
5)	Madhavi Anil Bodhane	10	Madhane
6)	Aishwarya V. Zilpe	15	Zilpe
7)	Pranali B. Dadmal	12	P.B. Dadmal
8)	Samiksha S. Bhendare	09	S. Bhendare
9)	Achal P. Teltumbade	12	A. Teltumbade
10)	Achha Amruta K. Gatede	15	A. Gatede
11)	Sneha Ashok Matte	13	S. Matte
12)	palak Narendra Dorge	14	P. Dorge
13)	Mayuri M. Balpane.	17	M. Balpane
14)	Nikita Bipte.	16	Nikita G. Bipte
15)	PRATHAMESH WADHAI	17	P.H. wadhai

K. P. Jyote
(Dr. K. P. Jyote)

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NILKANTHRAO SHINDE SCIENCE AND ARTS COLLEGE, BHADRAWATI DIST- CHANDRAPUR

B.SC- YEAR SEM-IV (CBCS)

DEPARTMENT OF CHEMISTRY

UNIT TEST

20 M


TIME 45 MIN

-
- a) Discuss the reduction of nitro benzene under different conditions. 5
- b) Explain stability and preparation of benzene diazonium chloride. 5

OR


- c) Explain Hoffman- bromamide reaction. 2½
- d) Give the preparation and uses of picric acid. 2½
- e) Explain amines as phase transfer catalyst. 2½
- f) Discuss coupling reaction. 2½



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G. Sachin Shrinane
N.S. Sci & Arts College
Bhadrawati, Dist-Chandrapur

**Nilkanthrao Shinde Science and Arts College, Bhadrawati Dist-
Chandrapur
Chemistry Department
Unit Test Marks
B.Sc II Sem IV (2023)**

Sr. No	Name of Students	Marks
1	Abhijit sen	11
2	Ragini nikhade	15
3	Gayatri shinde	16
4	Shubham assampaliwar	10
5	Komal jangapalli	16
6	Anamika chaudhari	15
7	Shivam kale	11
8	Tejaswini ambilkar	13
9	Vishwarupa karlekar	14
10	Anushri zumure	16
11	Hemangi shete	10
12	Trupti bagle	12
13	Suraj jiwtode	11
14	Pritam assampaliwar	16
15	Asmita donge	10
16	Achal rout	12
17	Gayatri sah	15


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Lt. Sachin Shirsone
N.S. Sci & Arts College
Bhadrawati Dist - Chandrapur

05/09/24

BSC-E Sem-IV

Unit test Unit-III

Chemistry - I

Sl. No.	Name	Roll No.	Signature
1	Mayusi M. Balpane	08	Mbalpane
2	Nikita Bipte.	09	Nikita Bipte.
3	Nayan Bhojar	05	Nayan
4	Pranav R. Zode	04	Pranav
5	Pranav S. Agbattanwar	07	Pranav
6	Dipali P. Rajurkar	08	Rajurkar
7	Shivani R. Khondare	05	Shkhondare
8	Achal P. Telumbade	03	Achal
9	Amrita K. Gatade	04	Amrita
10	Aishwarya U. Zilpe	02	Aishwarya
11	Pranali B. Dadmal	06	Pranali
12	Rupali G. Sawasakade	08	Rupali
13	Payal M. Sawasakade	09	Payal
14	Santoso S. Hiwale	07	Santoso
15	Madhavi A. Bodhane	01	Madhavi
16	Neharika S. Kulmethe	03	Neharika
17	Jashaswi N. Shinde	05	Jashaswi
18	Gayatri S. Shinde	04	Gayatri Shinde
19	Dnyaneshwari S. Raut	03	Dnyaneshwari

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Bhadrawati, Dist-Chandrapur

Pr. R. S. Kojur
Pr. R. S. Kojur

10/10/2023

Chemistry

Unit Test - III

DATE 10/10/2023 PAGE NO.

B.Sc - III Sem - III

		Marks	
1)	Khushi M Pradhan	07	Pradhan
2)	Gayatri U. Gan	08	Gayatri
3)	Nitu U Pisde	04	Nitu
4)	Pranali N. Tungpindi	02	Tungpindi
5)	Hemangi Suste	05	Hemangi
6)	Komal Jangapalli	08	Komal
7)	Tejalaxini R. Ambilkar	03	Ambilkar
8)	Maheeswari	07	

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Copy
Dr. R.S. Kopte
Dep. H. of
Chemistry

Teacher's Signature

Mathematics (Paper II: PDE)
Question paper

Page No. : _____
Date : _____

Q1. State the condition of integrability
solve. $(x+z)^2 dy + y^2 (dx + dz) = 0$ (6)

Q2. solve. $y z dx + x z dy + x y dz = 0$ (6)

Q3. solve by charpit method
 $z^2 = P q x y$ (3)

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Unit-Test

BSC-IInd (sem IV)
mathematics


Marks

①	Namrata P. Lanjewar	Namrata Lanjewar	15
②	Anushka G. Zurnuse	Anushka	15
③	Komal V. Tungapalli	Komal	13
④	Ankita S. Karkade	Ankita	12
⑤	Shriya H. Karkade	Karkade	14
⑥	Divya D. Pimpalkar	Pimpalkar	10
⑦	Mansi B. Matte	Mansi	12

Teacher

Aaransha

(Aaransha S. Aaransha)


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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24
Department of Zoology
Unit Test – I
B.Sc. Part – I Semester – II
Paper – I – Animal Diversity of Non-chordates
(Arthropoda to Hemichordata)

Date – 26/01/2024

Time- 1 Hrs.

Max. Marks 20

Question Paper

Q. 1) Write an essay on female reproductive system of Cockroach. Add a note on
Ootheca formation10

OR

Write notes on

- Sense organ in Cockroach
- Salivary gland of Cockroach

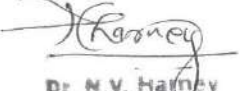
Q. 2) Describe Digestive system of Pila.....10

OR

Write notes on

- Pearl formation
- Nervous system of Pila


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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24

Department of Zoology

Unit Test - I

B.Sc. Part - I Semester - II

Paper - I - Animal Diversity of Non-chordates
(Arthropoda to Hemichordata)

Date - 20/01/2024

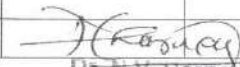
Time- 1 Hrs.

Max. Marks 20

Attendance Sheet and Marksheet

Sr. No.	Name of the student	Signature	Mark obtained
1	Pranali B. Dadmal	P.B. Dadmal	05
2	Rupali G. Sausakade	R. Sausakade	08
3	Payal M. Sausakade	P. Sausakade	03
4	Neharika S. Kulmathe	N. Kulmathe	09
5	Yashasvi N. Shisume	Y. Shisume	10
6	Gayatri P. Ranjay Shinde	G. Ranjay Shinde	12
7	Anandi Yashraj Deshmukh	A. Deshmukh	13
8	Pranav S. Agbattanwar	P. Agbattanwar	02
9	Dnyaneshwari Shaikarshini Rauf	D. Shaikarshini Rauf	08
10	Sankisa S. Hiwale	S. Hiwale	07
11	Kaifika S. Landge	K. Landge	10
12	Sneha Ashok Matte	S. Matte	06
13	Sakshi G. Chaudhari	S. Chaudhari	01
14	Gayatri A. Parshite	G. Parshite	02
15	Isha V. Ingale	I. Ingale	08
16	Sayali M. Parkhi	S. Parkhi	09
17	Rohit Narayan Donge	R. Donge	10
18	Gayatri T. Pawar	G. Pawar	13
19	Aishwarya V. Zilpe	A. Zilpe	12
20	Achal P. Tektumbade	A. Tektumbade	06


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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24

Department of Zoology

Unit Test – II

B.Sc. Part – I Semester – II

Paper – I – Animal Diversity of Non-chordates
(Arthropoda to Hcmichordata)

Date – 13/02/2024

Max. Marks 20

Time- 1 Hrs.

Question Paper

Q. 1) Write an essay on Digestive system of Asterias10

OR

Write notes on

- Bipinnaria larva
- General characters of Asterias

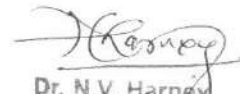
Q. 2) Write an account on affinities of Balanoglossus.....10

OR

Write notes on

- Tornaria larva
- Digestive system of Balanoglossus


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Session 2023-24

Department of Zoology

Unit Test - II

B.Sc. Part - I Semester - II

Paper - I - Animal Diversity of Non-chordates
(Arthropoda to Hemichordata)

Date - 13/02/2024

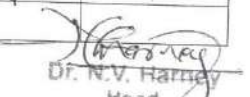
Max. Marks 20

Time- 1 Hrs.

Attendance Sheet and Marksheet

Sr. No.	Name of the student	Signature	Mark obtained
1)	Neharika .S. Kulkarni	N.Kulkarni	06
2)	Anandi Yatrai Deshmukh	A.Yatrai	04
3)	cajeshi .G. Chaudhari	S.G.Chaudhari	01
4)	Pranali B. Dalmal	P.B.dalmal	10
5)	Rupali G. Sawsakade	R.Sawsakade	12
6)	Payal M. Sawsakade	P.Sawsakade	10
7)	Gayatri A. Parshik	gayatri P	08
8)	Yashaswi .N. Shirsane	Y.N.Shirsane	06
9)	Jsha V. Ingole	J.V. Ingole	05
10)	Nyaneshwari shrikrushna Raut	N.Raut	09
11)	Sayali M. Parthi	S.Parthi	11
12)	Gayatri .Sanjay .Shinde	G.Shinde	11
13)	Pranay S. Agbattanwar	P.Agbattanwar	10
14)	Sankisa S. Hiwale	S.Hiwale	12
15)	Kaithra .S. Londge	K.Londge	13
16)	Sheba Ashok Mathe	S.Mathe	08
17)	Pavik Narayan Denge	P.Denge	01
18)	Asmit D. Banik	A.Banik	06
19)	Gayatri T. Pawar	G.Pawar	12
20)	Ashwaja .V. zilpe	A.zilpe	02
21)	Amruta K. Gataole	A.Gataole	01
22)	Achal .P. Tektumbade	A.Tektumbade	01


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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24
Department of Zoology
Unit Test – I
B.Sc. Part – II Semester – IV
Paper – I – Developmental Biology

Date – 06/02/2024

Max. Marks 20

Time- 1 Hrs.

Question Paper

Q. 1) Write an essay on mechanism of fertilization add a note on its significance.
.....10

OR

Write notes on.

- Classification of eggs according to the amount of yolk.
- Types of cleavages.

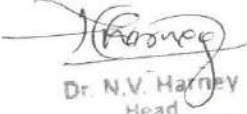
Q. 2) Write an essay on development of chick up to the formation of primitive streak.10

OR

Write notes on.

- Yolk sac
- Structure of fertilized egg of chick.


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Session 2023-24

Department of Zoology

Unit Test - I

B.Sc. Part - II Semester - IV


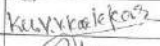

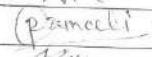

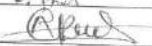
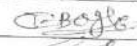

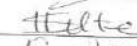

Paper - I - Developmental Biology


Date - 06/02/2024

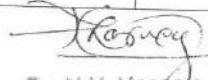
Time- 1 Hrs.

Max. Marks 20

Attendance Sheet and Marksheet

Sr. No.	Name of the student	Signature	Mark obtained
1.	Ragini N. Nikhade		12
2.	Vishwampr Karkare		02
3.	Priyanshu Aglase		08
4.	Prinabi Tungapindi		13
5.	Abhilit A. Sen		02
6.	Achal V. Raut		05
7.	Tarphi G. Bagle		12
8.	Snehal G. Nipunge		10
9.	Heman G. H. Dute		11
10.	Anamika I. Chaudhary		12
11.			
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17.			
18.			
19.			


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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24
Department of Zoology
Unit Test – II
B.Sc. Part – II Semester – IV
Paper – I – Developmental Biology

Date – 17/03/2024

Time- 1 Hrs.

Max. Marks 20

Question Paper

Q. 1) Describe in details types of placenta and its function.10

OR

Write notes on:

a) Spermatogenesis

b) Implantation

Q. 2) Describe the mechanism and function of apoptosis.10

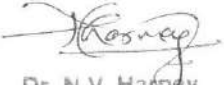
OR

Write notes on.

a) Types of stem cell.

b) Semen bank


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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur

Session 2023-24

Department of Zoology

Unit Test – II

B.Sc. Part – II Semester – IV

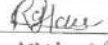
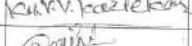
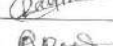
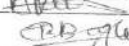

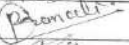
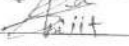
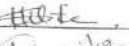
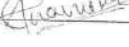

Paper – I – Developmental Biology

Date – 19/03/2024

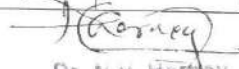
Time- 1 Hrs.

Max. Marks 20

Attendance Sheet and Marksheet

Sr. No.	Name of the student	Signature	Mark obtained
1.	Piyanshu P. Aglawe		06
2.	Vishvazupa V. Karkhore		05
3.	Ragini N. Nikhade		12
4.	Achal Raut		08
5.	Tejash G. Bagle		10
6.	Snehal G. Nipunge		11
7.	Pranali Tungapindi		07
8.	Abhilit A. Sen		09
9.	Hemangi Suete		10
10.	Anamika Choudhary		14
11.			
12.			
13.			
14.			
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19.			


Dr. L.S. Ladke
PRINCIPAL
N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur


Dr. N.V. Hartley
Head
Department of Zoology
Nilkanthrao Shinde Science & Arts
College, Bhadrawati, Dist. Chandrapur

Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24

Department of Zoology

Unit Test – I

B.Sc. Part – III Semester – VI

Paper – I – Microtechnique, Bioinformatics and Biostatistics

Date – 15/01/2024

Time- 1 Hrs.

Max. Marks 20

Question Paper

Q. 1) Write an account on Image Processing Methods in Microscopy.
.....10

OR

Write notes on

- Transmission Electron Microscopy.
- Chemical Fixation.

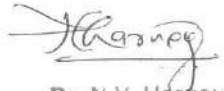
Q. 2) Write an account on Types of Microtomes.10

OR

Write notes on

- Types of Fixatives
- Section Cutting


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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24

Department of Zoology

Unit Test – I

B.Sc. Part – III Semester – VI

Paper – I – Microtechnique, Bioinformatics and Biostatistics

Date – 15/01/2024


Time- 1 Hrs.

Max. Marks 20

Attendance Sheet and Marksheet

Sr. No.	Name of the student	Signature	Mark obtained
1.	Dhanshree Nagase.	D. Nagase.	14
2.	Achal Nanduskar	Achal Nanduskar	16
3.	Prachi Wabhikar	Prachi Wabhikar	16
4.	Sakshi V. Dhoke	Sakshi V. Dhoke	12
5.	Yamini Marapelli	Yamini Marapelli	15
6.	Amrita R. Ram	Amrita R. Ram	08
7.	Shaitali Rade	Shaitali Rade	09
8.	Madhavi Kadurkar	Madhavi Kadurkar	12
9.	Shraddha Ambale	Shraddha Ambale	06
10.	Vaishnavi R. Chopkar	V.R. Chopkar	12
11.	Riya R. Des	Riya R. Des	13
12.	Pragati S. Helcarale.	P.S. Helcarale	14
13.	Sapna B. Raghunagar	Sapna B. Raghunagar	06
14.	Kesavika A. Nethane	Kesavika A. Nethane	02
15.	Achal S. Nanduskar	Achal S. Nanduskar	06
16.	Shaloni A. Kumar	Shaloni A. Kumar	07
17.			
18.			
19.			


Dr. L.S. Ladke
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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24

Department of Zoology

Unit Test – II

B.Sc. Part – III Semester – VI

Paper – I – Microtechnique, Bioinformatics and Biostatistics

Date – 21/03/2024

Time- 1 Hrs.

Max. Marks 20

Question Paper

Q. 1) Write in detail about Bioinformatics Tool BLAST.10

OR

Write notes on.

a) Protein Sequence Database.

b) Human Genome Project.

Q. 2) Write an account on students 'T' Test.10

OR

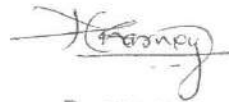
Write notes on.

a) Measures of Dispersion.

b) Chi Square Test



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Nilkanthrao Shinde Science and Arts College, Bhadrawati, District- Chandrapur
Session 2023-24

Department of Zoology

Unit Test – II

B.Sc. Part – III Semester – VI

Paper – I – Microtechnique, Bioinformatics and Biostatistics

Date – 21/03/2024

Time- 1 Hrs.

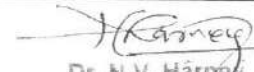
Max. Marks 20

Attendance Sheet and Marksheet

Sr. No.	Name of the student	Signature	Mark obtained
1.	Dhanshree Naigase	D. Naigase	08
2.	Achal Nandustar	Achal Nandustar	12
3.	Yamini Marapelli	Yamini	16
4.	Prachi Wabhitkar	Prachi	12
5.	Madhuri Kadukas	M.K.	13
6.	Rohitai Zade	Rohitai	08
7.	Sakshi V. Dhoke	S.V. Dhoke	02
8.	Amrita R. Ram	A.R. Ram	01
9.	Shraddha Ambede	S.A.	01
10.	Vaishnavi P. Chopkar	V.P. Chopkar	12
11.	Riya R. Dey	Riya	14
12.	Poojati S. Helewarde	P.S. Helewarde	12
13.	Sapna B. Ragarnwarde	S.B. Ragarnwarde	06
14.	Kaustubh A. Nchav	K.A. Nchav	01
15.	Achal S. Nandustar	A.S. Nandustar	07
16.	Shaloni A. Kumar	Shaloni	09
17.			
18.			
19.			



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Dr. N.V. Harnay
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Nilkanthrao Shinde Science And Arts College, Bhadrawati

Department of Computer Science

Class: **B.Sc. 1 Sem-I.**

Unit Test-I

Max. Marks: 15

Paper No. & Name: **I Information and Communication Technology** Date: 09/08/2023

Sr. No.	Name	Marks
1	ALI AMINA IRSHAD	AB
2	ATRAM SAKSHI DADAJI	10
3	AUSARMOL TEJAL SHYAM	09
4	BAGADE PALAK PRAFUL	13
5	BHOYAR ARYAN VIJAY	08
6	BHOYAR PRATIK VINOD	11
7	BISWAS POOJA BISWAJIT	14
8	CHUNARKAR PALAK HARISHCHANDRA	12
9	DANDAPAT TRITHI BHOLANATH	07
10	JUNARKAR YASH SANJAY	AB
11	KULMETHE KOMAL DNYANESHWAR	08
12	LONARE PRASHIK LIKHAPATI	11
13	MASRAM KUNAL MANOHAR	08
14	MESHARAM SMITA PRAFULLA	13
15	MOON PRANJALI ANIL	10
16	NAGARE PALAK SIDDHARTH	11
17	NILE JANAVI BANDU	11
18	PAZARE JANVI VIJAY	13
19	PULLARWAR SHWETA MANOJ	13
20	RAMTEKE ANUSHKA DEVENDRA	09
21	RAMTEKE SALONI SURYAKANT	10
22	SANE MONALISA DILIP	09
23	TANTI SIMA.VINOD	09
24	THENGE JANVI GAJENDRA	06
25	WAGH SHRADDHA SUNIL	15
26	YEREKAR SHIVAM SANTOSH	AB


Dr. M. N. Quadri

Assistant Professor

Department of Computer Science

N.S.Sci. & Arts College, Bhadrawati


Dr. L.S. Ladke

PRINCIPAL

N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur

**Nilkantharao Shinde Science and Arts College
Bhdrawati, Dist- Chandrapur**

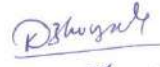
Unit Test

B.Sc- II Year Sem-III Paper-I (Physics)

Date-31/07/2023

- 1) How many degree of freedom a monoatomic, diatomic and triatomic molecule ? (4)
- 2) Derive an expression for mean free path of gas molecule on the basis of kinetic theory of gases. (5)
- 3) Derive an expression for the coefficient of viscosity of gas in term of the mean free path of molecules.(7)
- 4) Write down the formula of Average, RMS and Most probable speed. (2)
- 5) At what temperature will the mean free path of gas molecules at constant pressure be three times that at 27 degrees centigrade?(2)


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(K.V. Bhosale)

Nilkanthrao Shinde science and arts college,
Bhadrawati, Dist - Chaudasapur.

B.Sc. Sem-I Botany

Paper-II, Unit-I

Unit Test-I

Date - 25/08/2023

Max. Marks - 25

Time - 45 (min) 12:40 - 1:25

Que-1 :- Write on - 10 Marks (5 Marks each)

A. General characteristics of Bryophytes

B. Economic importance of Bryophytes

Que-2 :- Write short notes on - 15 Marks (2 1/2 Marks each)

C. T.S. thallus of Riccia

D. T.S. stem of Funaria

E. Structure of Antheridium of Riccia

F. Structure of Archegonium of Funaria

Que-3 :- Write answers in two or three lines only. 5 Marks (one mark each)


G. Syngamy

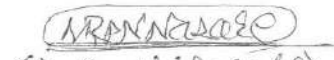
H. Columella

I. Alternation of Generation

J. Calyptra

K. Antherozoids


Dr. L.S. Ladke
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N.S. Science & Arts College


Dr. P.N. Jaiswal
25/08/2023

Nilkotwade Science and Arts College,
Bhedrawati, Dist-Chandrapur

B.Sc. Sem-III Botany

Unit Test-I on Unit-I

Question Paper Date-09/09/23

Time - 45 minutes

Max. Marks - 25

Que 1 :- Write on - $2 \times 5 = 10$ Marks

A] Properties and Role of Carbohydrates

B] Properties and Role of Lipids

Que 2 :- Write short notes on - $2 \frac{1}{2} \times 4 = 10$ Marks

C] Phospholipids

D] Structure of Glucose

E] Peptide Bond and Disulfide bond

F] Heterocyclic fatty acids

Que 3 :- Write answers in two or three lines only ($1 \times 5 = 5$ Marks)

G] Carbohydrates

H] Lipid

I] Protein

J] Cellulose

K] Oil

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Bhedrawati Dist-Chandrapur

NRANANDASAI
09/09/23

N.S. Science & Arts College, and Arts College,
Bhadrawati, Dist-Chandrapur.

Biology

date-25/08/23

Unit Test-I - Result

- 1) Mr. Sejal S. Koyalwar - 03
- 2) Mr. Apit D. Banskik - 02
- 3) Ms. Nayan K. Bhojar - 08
- 4) Ms. Rutuja P. Telang - 19
- 5) Ms. Deepali Pawan Rajurkar - 07
- 6) Ms. Aishwarya Vilas Zilpe - 11
- 7) Ms. Samiksha Santosh Bhendale - 07
- 8) Ms. Vaishali Wenkbede - 15
- 9) Ms. Anurita K. Gatode - 10
- 10) Ms. Prathmesh Wadhai - 20

MR. N. S. S. S.
25/08/23

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Dr. L.S. Ladke
PRINCIPAL
N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur

निडकुंडराव शिंदे विज्ञान व कला महाविद्यालय, भद्रावती. जि. चंद्रपूर

Unit. Test fourth (1)

B.A. I. Sem. II session - 2023-2024

subject- Sociology - Introduction to Sociology
Date. 21/3/2024

Sr. No.	Name of the student	Signature
1)	Chitika Hanuman Babhase	Hanuman
2)	Manasvi R. Nagrale	Nagrale
3)	Utkarsha Dilip Parkhi	Parkhi
4)	Savita Ashok Dando	Dando
5)	Bhumika Avinash Wankhede.	Wankhede.
6)	Snigdha Ishwat Nannawale	Nannawale
7)	Shubhangi Ravindra Tonge	Tonge
8)	Suchita Prakash Chaudhari	S. P. Chaudhari
9)	Roshani Madhav Chatare	R. M. Chatare
10)	Arati Shunakar Nannawale	A. S. Nannawale
11)	Gayatri Vijay Marekar	G. V. Marekar
12)	Sanalhya R. Rajurkar	Rajurkar

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PRINCIPAL
N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur

[Signature]
21/3/2024

मा. दे. वा. मे. दे. लक्ष्मी शिंदे

विठ्ठलराव विवे विज्ञान व कला महाविद्यालय, भद्रावती .सि. चंद्रपूर

Unit-Test. Result Sheet

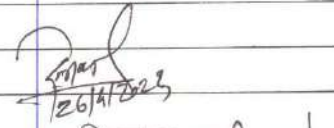
B.A.I Sem.II 2023-2024

Subject - Sociology paper - Introduction to Sociology

First Unit Test Result.

Sr. No.	Name of the student	Marks
1	Ku. Shubhangi Ravindra Tonge	08
2	Ku. Roshani Madhav Chatare	08
3	Ku. Sandhya Raju Rajurkar	10
4	Ku. Gayatri Vijay Maskar	12
5	Ku. Sneha Ishwar Nannawane	17
6	Ku. Bhumiya Avinash Wankhede	16
7	Ku. Savita Ashok Danao	21
8	Ku. Uttkarsh Dilip Parkhi	16
9	Ku. Manasvi Biju Nagpale	18
10	Ku. Ritika Hanuman Dakhare	18
11	Ku. Suchita Prakash Chaudhari	08
12	Ku. Aashi Shankar Nannawane	15


Dr. L.S. Ladke
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Bhadrawati, Dist. Chandrapur



26/11/2023
Dr. Dipankar M. Ghosh

निर्देशिका क्र. १०६ विभाग १ वरून तयारित झालेल्या
प्रश्नवली.

समाजशास्त्र भाग II सेमा II

प्र. 1. सामाजिक संरचनाचा या अर्थ लॉगून परिभाषित करा 10
प्रश्न लिहा 2

प्र. 2. सामाजिक परिवर्तनाचा अर्थ लॉगून परिभाषित करा 10
प्रश्न लिहा 2



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Unit Test - 2023-24 - Aug

निककेराव शिंदे विज्ञान व कला महाविद्यालय बुद्रवाती
जि. चंद्रपूर
विषय : = इतिहास
Class : = B.A Sem I

Time - 1.00 Hours

Mark = 20

प्रश्न :- कोणत्याही १ प्रश्नांचे उत्तर लिहा.

१) इतिहासाची साधने स्पष्ट करा - 20 मार्कांस
OR

अ) लिखित साधनात धार्मिक साहित्य लिहा.

ब) अलिखित साधनांचे वर्णन करा.

क) सिंधू कालीन धार्मिक जीवन लिहा.

ड) वैदिक कालीन वर्णव्यवस्था स्पष्ट करा.

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Bhadrawati, Dist. Chandrapur

Shahare


Dr. K. D. Shahare
Department of History


UNIT Test - 2023-24 - Aug

Page No	
Date	

Sub: [History]

(1)	Name of students	Signature
(1)	प्रवाली देवजी वरुकर	P.D. Buradkar
(2)	रजला शंकर नन्नावर	Sammurati
(3)	रोहणी माधव चतारे	R.M. Chatare
(4)	श्रुतिका सुनिल चौख	Shrutika
(5)	पंकज सुनील पोयाम	Pankaj
(6)	अविता अशोक दानव	Aruna
(7)	स्मनिशा डोंगे	S. Donge
(8)	गारती खामनकर	G. Khamankar
(9)	आरती शंकर नन्नावर	A.S. Nannawar
(10)	Suhani M. Shirsurkar	S.M. Shirsurkar
(11)	वांशवी वासुदेव	Vaishavi
(12)		


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Dr. K.D. Shahare
Department of History

CN17-7157-2023-24 - Aug.


Sub : History

Class : B.A sem I

Result

Sl. No.	Name of students	Mark out of 20
1	Pranali D. Buradkar	15
2	Sheha E. Nannaware	13
3	Roshani M. Chatare	12
4	Shrutika S. Chaukhe	14
5	Pankaj Sunil. Poyam	12
6	Sarita A. Danao	17
7	Saniya Donge	12
8	Gayatri Khamankar	12
9	Azati S. Nannaware	12
10	Suhani Shirpurkar	10
11	Vaishnavi Shastrakar	14


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Bhadrawati, Dist. Chandrapur


Dr. K. D. Shahare
Department of History

**Nilkanthrao Shinde Science and Arts College, Bhadrawati Dist-
Chandrapur**

Notice

All the teachers of college here by inform that they should set question paper of their respective subject as per university question paper pattern for College Preliminary Winter Exam-2023 and submit hard copy of question paper to Librarian Prof. Sandeep Pradhan up to 17/10/2023

Date-17/10/2023


Dr. L.S. Ladke
PRINCIPAL
N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur

18/10/2023

सूचना

महाविद्यालयामाती सर्व प्राध्यापकांती रुचिनि करवतात
 झेने की, सराव परीक्षा विवाची - 2023 करीता आपण आपल्या
 विषयाच्या सर्व पेपरच्या प्रश्नपत्रिका उद्या दिनांक 18/10/2023
 पर्यंत श्री शशद गोवारकर यांचेकडे जमा करावे.
 विद्यार्थ्यांनी प्रश्नपत्रिका सादरून आपल्याला तपासण्यासाठी
 दिव्यानंतर त्याच लवकरात लवकर मुल्यांकन करून परत
 देवावेत व कुठे चुक झाले ते समजावून सांगायें.

Ladke
 18/10/23
Dr. L.S. Ladke
 PRINCIPAL
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1. डा. सौ. पु. वी. घोडे
2. डा. पुन. व्ही. दशे - *[Signature]*
3. डा. पु. जी. वडेगावकर - *[Signature]*
4. डा. पुन. पुस. वाडवे - *[Signature]*
5. डा. आर. पुस. हजारे
6. डा. जी. आर. बंदरे
7. डा. पी. पुन. नारकर - *[Signature]*
8. डा. पुस. आर. गिरी - *[Signature]* 18/10/23
9. डा. के. पुन. शिंदे
10. डा. व्ही. पुन. शिंदे
11. डा. पुस. पुन. रवाडारी - *[Signature]*
12. डा. के. पी. कुमर
13. डा. के. व्ही. गोंगड *[Signature]*
14. डा. पुस. पुस. श्रीराम *[Signature]*
15. डा. पुस. बी. तांगड *[Signature]*
16. डा. जी. पुन. गवरे *[Signature]*
17. डा. के. जी. शिंदे *[Signature]*

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 N.S. Science & Arts College

19 श्री. विनाय गो-कार - K...

20 श्री. डाक्याजी जावारी - 5907

21 श्री. रवीजी पेशकर - S. Karan

22 श्री. सावमी लक्ष्मण - S. Karan

23 श्री. सुधमा लालक - S. Karan

24 श्री. अक्षर खान पंडीत - S. Karan

Ladke

Dr. L.S. Ladke
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सूचना

गुरुविद्यालयवाली संघ विद्यालया माहिती प्रमाणित सुद्धा
 कुरव्यात येणे करी उद्देशाने परिक्षा - 2024 ची 10 परीक्षा
 द्यावयाची दृष्टीने आपण शिकवित असलेल्या माहिती प्रमाणित
 विद्यापीठ Pattern नुसार Sedding करताना दि. 13/06/2024
 पर्यंत लायब्ररीत जी खोली प्रदान यावेळी लायब्ररीत
 किती Copies व पुस्तक कराव्यात हे सुद्धा लिहा वगळित
 सूचनेची नोंद घ्यावी

Ladke
 13/6/24
 Dr. L.S. Ladke
 PRINCIPAL
 N.S. Science & Arts College
 Bhadrawati, Dist-Chandrapur


प्रध्यापकांनी नावे

- 1) डा. सी. ड. बी. धोरे - *Ashole*
- 2) डा. पुन. व्ही. हरण - *Harne*
- 3) डा. ड. डी. दहेगावकर - *Dahgaokar*
- 4) डा. पुन. पुस. वाडव - *Wadav*
- 5) डा. आर. पुस. हजारे - *Hare*
- 6) डा. जी. आर. बुदरे - *Budare*
- 7) डा. के. पुन. शिंदे
- 8) डा. पी. पुन. नाजरे - *Najare*
- 9) डा. पुस. आर. सिंगे - *Singe*
- 10) डा. पुस. पुन. खादरी - *Khadi*
- 11) डा. के. पी. लुगडे - *Lugade*
- 12) डा. के. व्ही. भिंगारे - *Bhingare*
- 13) डा. पुस. पुन. शिराम - *Shiram*
- 14) डा. डी. पुस. गवरे - *Gavare*
- 15) डा. पुस. व्ही. तांगडे - *Tangde*
- 16) डा. डा. के. डी. शहा - *Shaha*
- 17) कु. रेशमी जोग
- 18) कु. सुरेशी

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२०१३ रवाना लेख
१) श्री. उदयकांत खोसले
२) श्री. आशुतोष आचार्य

~~अवकाश~~
अवकाश


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प्राप्त

सक

संभार

देण्या

कार्यक्रम

सोवत

प्रत - मा

माहि

**Nilkanthrao Shinde Science and Arts College, Bhadrawati Dist-
Chandrapur**

Notice

All the teachers of college here by inform that they should set question paper of their respective subject as per university question paper pattern for College Preliminary Summer Exam-2024 and submit hard copy of question paper to Librarian Prof. Sandeep Pradhan up to 18/03/2024.

Date-18/03/2024



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Nilkanthrao Shinde Science and Arts College, Bhadrawati Dist- Chandrapur

B.Sc-I Year Sem-II (CBCS)

Paper 1 (Organic Chemistry)

winter-2023

50 Marks

Notes : 1. All five question are compulsory and carry equal marks.
2. Give chemical equation and draw diagrams wherever necessary.

- | | | | |
|----|---|--|------------------|
| 1. | A | Discuss the reaction and mechanism of SN2 reaction with energy profile diagram. | 5 |
| | B | Write note on following synthesis of chlorobenzene-
i) Sandmeyer's Reaction. ii) Gattermann Reaction. | 5 |
| | | OR | |
| | C | Discuss Benzyne Mechanism. | 2 ^{1/2} |
| | D | Write short note on E1 reaction | 2 ^{1/2} |
| | E | Why benzyl chloride is more reactive than chlorobenzene? | 2 ^{1/2} |
| | F | Differentiate between Elimination and substitution reactions. | 2 ^{1/2} |
| 2. | A | Discuss reaction and mechanism of Pinacol-Pinacolone rearrangement. | 5 |
| | B | How will you prepare primary, secondary and tertiary alcohols by using Grignard reagent? | 5 |
| | | OR | |
| | C | What is the action of diethyl ether on cold & hot HI? | 2 ^{1/2} |
| | D | Write a short note Reimer - Tiemann reaction. | 2 ^{1/2} |
| | E | How will you prepare phenol by cumene hydroxide method? | 2 ^{1/2} |
| | F | Explain - Acidic character of phenol. | 2 ^{1/2} |
| 3. | A | Explain the structure and reactivity of carbonyl group. | 5 |
| | B | Explain the following.
i) Cannizzaro's reaction ii) Wittig reaction. | 5 |
| | | OR | |
| | C | Explain in short - Rosenmund reduction reaction. | 2 ^{1/2} |
| | D | Explain nucleophilic addition of HCN to acetaldehyde. | 2 ^{1/2} |
| | E | How will you prepare alkane by Wolff - Kishner reduction reaction? | 2 ^{1/2} |
| | F | Write a Benzoin condensation. | 2 ^{1/2} |
| 4. | A | Define esterification? Explain the mechanism of alkaline hydrolysis of | 5 |

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NILKANTHRAO SHINDE SCIENCE AND ARTS COLLEGE

Bhadrawati, Dist. Chandrapur (M.S.)

Preliminary Examination Winter-2023

Class: **B.Sc. (Part-I) CBCS Semester I**

Subject: **Computer Science**

Paper No./Name: **II (Programming Techniques & Introduction to C)**

Time: **Three Hours** Date: / /2023

Max. Marks: **50**

- Notes:** 1. All Questions are compulsory and carry equal marks.
2. Draw neat and labeled diagram wherever necessary.
3. Avoid vague answers and write answer relevant and specific to questions only.

1. Either: 5
a) Explain Assembly Language with advantages and disadvantage 5
b) Explain translator with its types. OR
c) Explain Compilation process in details 5
d) Discuss Characteristics of Good Language 5
2. Either: 5
a) What is Algorithm? Explain its advantages and disadvantages 5
b) Define flowchart ? Explain symbols used in flowchart OR
c) What are the complexity of algorithm? Explain 5
d) Describe development tools in detail 5
3. Either: 5
a) Explain Variable and Constant with example 5
b) Explain scanf() statement with syntax and example OR
c) Explain printf() statement with syntax and example 5
d) Explain Data types used in C language 5
4. Either: 5
a) Explain if-else statement with syntax and example 5
b) Explain for loop with example OR
c) Differentiate between while and do-while loop 5
d) Write a program in C to check the given year is leap year or not 5
5. All questions are compulsory. 2½
a) Write a note on HLL 2½
b) Write a note on Problem Analysis 2½
c) Write a note on Conditional Operator 2½
d) Write a note on goto statement 2½

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60

NILKANTHRAO SHINDE SCIENCE AND ARTS COLLEGE, BHADRAWATI

Preliminary Examination Winter 2023

Subject: Botany

Class: B.Sc. Sem - I

Paper I: Microorganisms, Algae, Fungi and Plant Pathology

Time 3 hrs.

Max. Marks 50

Note: 1) All questions are compulsory and carry equal marks.

2) Draw well labelled diagram wherever necessary.

Que.1-A) What is Mycoplasma? Describe it. (5M)

Que.1-B) What is bacteriophage? Explain the structure of it. (5M)

OR

Que.1) Write Note on

a) Mycoplasma (2½)

b) General character of life (2½)

c) Economic importance of bacteria (2½)

d) General character of Virus (2½)

Que.2-A) Describe the Methods of Asexual reproduction in Nostoc (5M)

Que.2-B) What is Globule? Explain It (5M)

OR

Que.2) Write Note on

a) Nucule (2½)

b) Economic importance of algae (2½)

c) General characters of algae (2½)

d) Amylum Stars (2½)

Que.3-A) Describe Asexual reproduction in Mucor (5M)

Que.3-B) What is teleutospore? Explain it (5M)


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निम्नलिखित विद्ये विज्ञान व कला महाविद्यालय, चंद्रावती, सी. नंदपुर
सत्र परीक्षा - 2023

B.A.I Sem-I

Sociology - Introduction to Sociology

Time - Three Hours

Max. Marks : 80

सूचना - सर्व प्रश्न इतिवार्थी आहेत.
सर्व प्रश्नांना समान गुण आहेत.

प्र. 1- समाजशास्त्र म्हणजे काय? समाजशास्त्राचा अर्थशास्त्र आणि राजपर्यायशाही संबंध स्पष्ट करा? 16
किंवा.

विवाहाची व्याख्या करा. विवाहाचे प्रकार स्पष्ट करा.
प्र. 2 सामाजिक संरचनेची व्याख्या करा. सामाजिक संरचनेच्या अंतर्भागातील सामाजिक समूहाची व्याख्या करा. सामूहिक वैशिष्ट्ये निर्याद करा. 16
किंवा

सामाजिक समूहाची व्याख्या करा. सामूहिक वैशिष्ट्ये निर्याद करा.
प्र. 3 स्वाभिलषित्वाची कोणतेही दोन उत्तरे लिहा. 16

- सामाजिकशास्त्राचे महत्त्व
- सामाजिकी वैशिष्ट्ये
- संस्कृतीचे वैशिष्ट्ये
- विवाहाचे उद्देश.

प्र. 4 शोडकग्राम उत्तरे लिहा. कोणतेही दोन. 16

- कुटुंबाचे प्रकार
- सामाजिक दमाने प्रकार
- सामाजिकरणाची माध्यमे
- समाजशास्त्राची व्याप्ती

प्र. 5 स्वाभिलषित्वाची प्रत्येक प्रश्नाचे संक्षिप्त उत्तरे लिहा. 16

- समाजशास्त्राचा जनक
- धर्माची व्याख्या
- संयुक्त कुटुंब
- एक विवाह
- विवाहाचा अर्थ
- शास्त्राचे प्रकार
- सामाजिकरणाचे साधन-शाध.

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कोणतेही-४ (२०)

प्रश्न १ - व्यावहारिक अभ्यासक्रमाची शरत काजारे।

- (१) जाहिरात लेखनाचे महत्व सांगा.
- (२) संवाद म्हणजे काय?
- (३) हेतुमूळकता म्हणजे काय?
- (४) सारोश लेखनाचे फायदे सांगा.
- (५) सारोश लेखन म्हणजे काय?

प्रश्न २ - कोणतेही-चार प्रश्न सोडवा- (२०)

- (१) 'अति तिथे माती' कल्पना विस्तार करा.
- (२) 'जमसेवा रिव इश्वरसेवा' कल्पना विस्तार करा.
- (३) नातमी म्हणजे काय?
- (४) नातमी लेखनात लेखन विषयक नियम का पाडावे.
- (५) भाषांतराचे महत्व सांगा.
- (६) लक्ष्यनिष्ठ भाषांतराचे स्वरूप स्पष्ट करा.

प्रश्न ३ - कोणतेही-चार प्रश्न सोडवा- (२०)

- (१) कोणकोणत्या निमित्ताने मुळाखत घेतल्या जाते.
- (२) मुळाखत घेतल्याचा उद्देश कोणता असतो.
- (३) संहितेचे र टीप लिहा.
- (४) संपादन कार्याची व्याख्या व स्वरूप सांगा.
- (५) माहितीपत्रकाचे स्वरूप सांगा.
- (६) जाहीर निवेदनाचे स्वरूप सांगा.

प्रश्न ४ - कोणतेही-चार प्रश्न सोडवा- (२०)

- (१) अजिंक्य युगात संगणकचा वापर सांगा.
- (२) संगणक वापर टीप लिहा.
- (३) इंस्टंट मॅसेजिंग चे फायदे व तोटे सांगा.
- (४) शनिवृत्त लेखन म्हणजे काय?
- (५) समेचे शनिवृत्त स्पष्ट करा.
- (६) अर्वाहात्मिक शनिवृत्ताच्या लेखनाची पद्धती सांगा.

N. S. Sci. & Arts college, Bhadrawati Dist- Chandrapur
Preliminary Examination Summer-2024
B.Sc. I Semester II (CBCS)
Physics Paper II (USPHT04)
(Magnetostatics and Electromagnetic Waves)

Time: 3 Hours

Max. Marks: 50

- Note: 1. All questions are compulsory.
2. Draw neat diagrams wherever necessary.

I. Either

- a) i) State and prove Biot-Savart's law. (3)
ii) Derive an expression for magnetic field at a point on the axis of circular coil carrying current. (4)
iii) A coil of radius 31.4 cm and 50 turns carries a current of 1A. Find the magnetic field at the centre of the coil and at a distance 5 cm from the centre on the axis of coil. ($\mu_0 = 4\pi \times 10^{-7}$ Wb/Am) (3)

OR

- b) i) State and prove Ampere's circuital law. ($2\frac{1}{2}$)
ii) Explain Magnetic induction. ($2\frac{1}{2}$)
iii) Discuss Diamagnetic materials. ($2\frac{1}{2}$)
iv) Discuss Paramagnetic materials. ($2\frac{1}{2}$)

2. Either

- a) i) Describe the principle, construction and working of Transformer. (7)
ii) The transformation ratio between the primary to secondary is 1:2. It is connected to a supply of 240 volts. Find the voltage induced in the secondary coil. (3)

OR

- b) i) What are the energy losses in transformer. ($2\frac{1}{2}$)
ii) Discuss types of transformer. ($2\frac{1}{2}$)
iii) Explain in brief Mutual inductance. ($2\frac{1}{2}$)
iv) Calculate the self inductance of a coil of 200 turns through which current of 2.5 amperes flows, which produces a magnetic flux of 4×10^{-4} weber. ($2\frac{1}{2}$)

3. Either

- a) i) Explain the significance of displacement current. (3)


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Nilkanthrao Shinde Sci. & Arts college, Bhadrawati Dist- Chandrapur
Preliminary Examination Summer - 2024
B. Sc. II Semester IV (CBCS)
Physics Paper II: Optical Physics

Time: 3 Hours

Max. Marks: 50

Note: 1. All questions are compulsory.
2. Draw neat diagrams wherever necessary.

1. Either

- a) i) Explain interference in thin films due to reflected light. (8)
ii) A soap film of R.I. 1.33 and thickness 1.5×10^6 is illuminated by light incident at an angle 60° . a dark band corresponding to wavelength 5000 \AA is observed by reflected light. Calculate the order of the dark band. (2)

OR

- b) i) Explain Haidinger's fringes. $(2\frac{1}{2})$
ii) Explain Interference fringes at wedge-shaped films. $(2\frac{1}{2})$
iii) What is Fresnel's biprism? Describe an experiment to determine the wavelength of monochromatic light with biprism. $(2\frac{1}{2})$
iv) The light of wavelength 5893 \AA falls on a thin glass plate ($\mu=1.5$) such that the angle of refraction in plate is 60° . Find the minimum thickness of the plate such that the plate appears dark in the reflected light. $(2\frac{1}{2})$

2. Either

- a) i) Explain construction and working of Newton's rings experiment. (7)
ii) In Newton's rings experiment, using reflected light the diameter of 3rd ring is 0.236 cm and that of 13th ring is 0.490 cm. If the radius of the curvature of the lens surface in contact with plane glass is 99.83 cm, calculate the wavelength of light used. (3)

OR

- b) i) Explain determination of wavelength using Michelson's interferometer experiment. $(2\frac{1}{2})$
ii) Explain construction of Michelson's interferometer experiment. $(2\frac{1}{2})$
iii) Explain Newton's rings experiment for refractive index measurement $(2\frac{1}{2})$
iv) When the movable mirror of Michelson's interferometer is shifted through 0.02945 mm, a shift of 100 fringes is observed. Find the wavelength of light used. $(2\frac{1}{2})$

3. Either

- a) i) Explain the theory of diffraction grating. (3)
ii) Explain Fraunhofer diffraction at a single slit. (4)
iii) A monochromatic light of wavelength 6500 \AA falls normally on a grating. The first order Spectrum is observed at 15° from the mean position. Calculate the grating element. (3)

OR

- b) i) Explain half period zone. $(2\frac{1}{2})$


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निकुंठराव राव शिर्डी विज्ञान व कला महाविद्यालय भद्रावती

40

सराव परीक्षा २०२४

बि. ए. भाग १ सैम - 2nd.

Sub := History Indian History (1526 to 1761 A.D.)

वेळ := ३ तास

माफस : ८०

सुचना : १) सर्व प्रश्नांना समान गुण आहेत.

२) सर्व प्रश्न आवश्यक आहेत.

प्रश्ना. तावराची कामगिरी स्पष्ट करा.

(16 माफस)

किंवा

शेरशाहच्या सुधारणा स्पष्ट करा.

प्रश्ना. मराठा सत्तेच्या उदयाची कारणे लिहा.

-(16 माफस)

किंवा

शिवाजीच्या शासन व्यवस्था स्पष्ट करा.

प्रश्ना. खालील प्रश्नांची उत्तरे 16 ते 24 ओळीत लिहा. कोणतेही दोन (16 माफस)

अ) द्वितीय पानिपत युद्धावर (इ.स. 1556) टिपण लिहा.

ब) लाजमहलवर टिपण लिहा.

क) औरंगजेबाच्या धार्मिक धोरणावर माहिती लिहा.

द) मोहल सत्तेच्या पतनाची कारणे लिहा.


प्रश्ना: खालील प्रश्नांची उत्तरे 16 ते 24 ओळीत लिहा. कोणतेही दोन (16 माफस)

अ) महाराणी ताराबाई वर टिपण लिहा.

ब) चौथाई आणि सरदेशमुखीवर टिपण लिहा.

क) बाजीराव पहिला. निजाम अंबेडावर माहिती लिहा.

द) पानिपतच्या तिसऱ्या लढाई (1761) चे परिणाम लिहा.


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Nilkanthrao Shide Science and Arts College, Bhadrawati
College Preliminary Examination Summer - 2024
B.Sc. I (C.B.C.S. Pattern) Sem-II
USZOT03 - Zoology Paper-I :
Animal Diversity of Nonchordate
(Arthropoda to Hemichordata)

Time : Three Hours

Max. Marks : 50

- Notes : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Draw well-labelled diagram wherever necessary.

- 1 Describe the digestive system of Periplaneta. 10
OR
Write notes on.
a) Central Nervous system of Periplaneta.
b) Circulatory system of Periplaneta.
- 2 Describe the Nervous system of Pila. 10
OR
Write notes on.
a) Male reproductive system of Pila.
b) General characters of Mollusca.
- 3 Describe in details Water Vascular System of Asterias. 10
OR
Write notes on.
a) External morphology of Asterias.
b) Regeneration in Echinoderms.
- 4 Explain the External morphology of Balanoglossus. 10
OR
Write notes on.
a) Affinities of Balanoglossus with Chordata.
b) Affinities of Balanoglossus with Echinoderms.
5. Write 4 to 5 lines on the following any ten. 10
- | | | | |
|---------------|----------------------|-------------------|------------------------|
| i) Mandibles | ii) Tergum. | iii) Ootheca. | iv) Gill lamella. |
| v) Operculum. | vi) Mother of Pearl. | vii) Stone Canal. | viii) Aboral aperture. |
| ix) Autotomy. | x) Protocoel. | xi) Tornaria. | xii) Ciliary bands. |

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Nilkanthrao Shide Science and Arts College, Bhadrawati
College Preliminary Examination Summer - 2024
B.Sc.-II (CBCS Pattern) Semester - IV
USCZOT07 Zoology Paper-I
Developmental Biology

Time : Three Hours

Max. Marks : 50

- Notes : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Draw a well labelled diagram wherever necessary.

- 1 Describe in details classification of eggs. 10
OR
Write notes on.
a) Cleavage
b) Blastulation
- 2 Write an account on extra embryonic membrane. 10
OR
Write notes on.
a) Gastrulation in Frog.
b) Epiboly and Emboly.
- 3 Write an essay on implantation in mammals. 10
OR
Write notes on.
a) Structure of Sperm.
b) Vitellogenesis.
- 4 Describe the process of In Vitro Fertilization. 10
OR
Write notes on.
a) Semen Banks
b) Contraceptive
- 5 Write four or five line on each of the following **any ten.** 10
i) Yolk ii) Antifertilizine iii) Morula iv) Invagination
v) Nurse cell vi) Archenteron vii) Ovum viii) Hyaluronidase
ix) Blastocyst x) Apoptosis xi) Totipotent cell xii) Test tube bay


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Nilkanthrao Shide Science and Arts College, Bhadrawati
College Preliminary Examination Summer - 2024
B.Sc. Final (CBCS Pattern) Semester - VI
USCZOT15 :- Paper – I
Microtechnique, Bioinformatics and Biostatistics

Time : Three Hours

Max. Marks : 50

- Notes : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Draw well-labelled diagram wherever necessary.

- 1 Write an account of Scanning Electron Microscope. 10
OR
Write notes on.
a) Chemical fixation.
b) Transmission Electron Microscope.
- 2 Write an account on types of Microtomes. 10
OR
Write notes on.
a) Types of fixatives.
b) Section cutting.
- 3 Write in details about bioinformatics tools BLAST. 10
OR
Write notes on.
a) Protein sequence database.
b) Human genome project.
- 4 Write an account on students 'T' test. 10
OR
Write notes on.
a) Measures of Dispersion.
b) Chi square test.
5. Write 4 to 5 lines on the following any ten. 10
- | | | | |
|---------------------------------|-----------------------|-----------------------------|----------------------------|
| i) Phase contrast
Microscope | ii) Glutaraldehyde | iii) Freeze fracture | iv) Narcotization |
| v) Embedding | vi) Haematoxylene | vii) FASTA | viii) Cladistics
method |
| ix) Uniport | x) Standard deviation | xi) Poisson
distribution | xii) Sampling error |


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BHADRAWATI, DIST. CHANDRAPUR**



DEPARTMENT OF Chemistry
CERTIFICATE

This is to certify that Shri / Ku. / Smt. Pranali
Ms. Tungapindi is a bonafide student of
Class Bsc Indycor sem 3 Roll No. He / She has done
Unsatisfactory / Satisfactory / Good / Excellent Assignment work in
the subject Chemistry in Academic Session 2023-24.

[Signature]
Incharge Teacher

Head of the Deptt.

[Signature]
Dr. L.S. Ladke
PRINCIPAL

Principal

N. S. Sci. & Arts College, Bhadravati, Dist-Chandrapur

**NILKANTHRAO SHINDE SCIENCE AND
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LEARNING AND RESEARCH
BHADRAWATI, DIST. CHANDRAPUR**



**DEPARTMENT OF MATHEMATICS
CERTIFICATE**

This is to certify that Shri / Ku. / Smt. Ku. Mayuri
Manohar Balpane is a bonafide student of
Class B.Sc 1st yr. Roll No. _____ He / She has done
Unsatisfactory / Satisfactory / Good / Excellent Assignment work in
the subject Mathematics II in Academic Session 2023-2024.

22/3/24
Incharge Teacher

Ladke
Head of the Dept.
N. S. Sci. & Arts College, Bhadrawati

Ladke
Principal 3/24
N. S. Sci. & Arts College, Bhadrawati
Dr. L.S. Ladke
PRINCIPAL
N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur Anand Screen, Bhadrawati 9850372295

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DEPARTMENT OF Mathematics

CERTIFICATE

This is to certify that Shri / Ku. / Smt. Kunal Rupesh .

Modak

is a bonafide student of

Class BSc^{2nd} year Roll No. _____ He / She has done

(Sem IV)
Unsatisfactory / Satisfactory / Good / Excellent Assignment work in

the subject Mathematics II in Academic Session _____.

Rupesh
26/3/24
Incharge Teacher

Ladke
26/3/24
Head of the Dept.

N. S. Sci. & Arts College, Bhadrawati

Ladke
26/3/24
Principal

N. S. Sci. & Arts College, Bhadrawati

Ladke
Dr. L.S. Ladke
PRINCIPAL
N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur

Anand Screen, Bhadrawati 9850372295

(Kuldip V. Bhungale)

NILKANTHRAO SHINDE SCIENCE & ARTS COLLEGE,
Bhadrawati, Dist. Chandrapur

CERTIFICATE

PRACTICAL RECORD

Session 2023 - 24

Name of the Department PHYSICS

This is to certify that this practical record contains the bonafied practical work

of Shri./Kumari shubham R. Asampalliwar

During of Session 2023 - 24 in BSc 2nd yr sem III

Class. As per record his / her Roll No. is _____

Date:

practical incharge
Head of Department

Head of Department

Ladke

Dr. L.S. Ladke

PRINCIPAL

N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur

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BHADRAWATI, DIST. CHANDRAPUR**



DEPARTMENT OF History
CERTIFICATE

This is to certify that Shri / Kf. / Sift. Pratham Kalas
Boskute is a bonafide student of
Class B.A III - Sem IV Roll No. He / She has done
Unsatisfactory / Satisfactory / Good / Excellent Assignment work in
the subject History in Academic Session 2023-24.


Incharge Teacher


Head of the Deptt.

Principal

N. S. Sci. & Arts College, Bhadrawati  N. S. Sci. & Arts College, Bhadrawati

Dr. L. S. Ladke

PRINCIPAL

**N.S. Science & Arts College
Bhadrawati, Dist-Chandrapur**

Anand Screen, Bhadrawati 9850372295

**NILKANTHRAO SHINDE SCIENCE AND
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DEPARTMENT OF

Sociology

CERTIFICATE

This is to certify that Shri / Ku. / Smt. Sanjiv
Bandu Donge is a bonafide student of
Class BA 1st year Roll No. _____ He / She has done
Unsatisfactory / Satisfactory / Good / Excellent Assignment work in
the subject Sociology in Academic Session 2023-2024


Incharge Teacher

Head of the Deptt.


Dr. L.S. Ladke
PRINCIPAL

Principal

N. S. Sci. & Arts College, Bhadrawati N.S. Science & Arts College, Bhadrawati
Bhadrawati, Dist-Chandrapur

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ARTS COLLEGE, CENTRE FOR HIGHER
LEARNING AND RESEARCH
BHADRAWATI, DIST. CHANDRAPUR**



**DEPARTMENT OF Sociology
CERTIFICATE**

This is to certify that Shri / Ku. / Smt. NIKITA UTTAM
Durve is a bonafide student of
Class BA.I sem-II Roll No. _____ He / She has done
Unsatisfactory / Satisfactory / Good / Excellent Assignment work in
the subject Sociology in Academic Session 2023-2024


Incharge Teacher

Head of the Deptt.

Ladke
N. S. Sci. & Arts College, Bhadrawati

Principal

Ladke
N. S. Sci. & Arts College, Bhadrawati

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PRINCIPAL
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