

1.1 - Curricular Planning and Implementation



1.1.2- The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)



Vinayak Vidnyan Mahavidyalaya Nandgaon Kh.



Pravin Khodke Memorial Trust, Amravati's
VINAYAK VIDNYAN MAHAVIDYALAYA
Nandgaon Khandeshwar, Dist. Amravati
NAAC Accredited B++ Grade with CGPA 2.83

Sau. Sulbha Sanjay Khodke
(MLA, Amravati)
President, PKM Trust, Amravati

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Dr. Alka A. Bhise
Principal
Mob. 98235 26341

Outward no/PKMT/VVM/1224/Q

Dt.04/12/2024

Self- Declaration

This is to certify that the information, reports, true copies of the supporting documents, numerical data and web links furnished in this files are verified by I.Q.A.C and head of the institute and found correct.

Hence this certificate is issued

Dr Suchita Khodke
I.Q.A.C. Co-ordinator
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.



Dr Alka A. Bhise
PRINCIPAL
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khan. Dist. Amravati

INDEX

S. N.	Documents	Page No.
1.	Projects	2
2.	Seminar	65
3.	Unit Test	77
4.	Internal Marks	125



PROJECT



Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Pravin Khodke Memorial Trust's

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KH. DIST-AMRAVATI



Department of

BOTANY



Project Topics B.Sc III Sem VI (Summer 2024)

Session 2023-24

Sr. No.	Name of Students	Topics	Date	Signature
1	Aarati N.Mokalekar	Cell wall –Structure and Functions	18/4/2023	A.N.Mokalekar
2	Adarsh S.Pande	Mitochondrial DNA and Chloroplast DNA	18/4/2023	Adarsh
3	Adeeba Anam	Nomenclature of Enzymes	18/4/2023	Adeeba
4	Aditya K. Pawar	Mitochondrial DNA and Chloroplast DNA	18/4/2023	Aditya
5	Aniket R. Chawale	Mitochondrial DNA and Chloroplast DNA	18/4/2023	Aniket
6	Aniket S.Meshram	Mitochondrial DNA and Chloroplast DNA	18/4/2023	Aniket
7	Anisha V.Deshmukh	Cell wall –Structure and Functions	18/4/2023	Anishav
8	Ankush M. Jadhao	Numerical aberrations of chromosome	18/4/2023	Ankush
9	Anushri G. Rohankar	Numerical aberrations of chromosome	18/4/2023	Anushri
10	Amrapali R. Kale	Numerical aberrations of chromosome	18/4/2023	Amrapali
11	Ashwini D. Tirmare	Cell wall –Structure and Functions	18/4/2023	Ashwini
12	Ashwini R. Wankhade	Numerical aberrations of chromosome	18/4/2023	Ashwini
13	Ayan N.Khan	Characteristics of Enzymes	18/4/2023	Ayan
14	Bhushan Y.Chawale	Chromosome- Morphology	18/4/2023	Bhushan
15	Diksha V. Khobragade	Cell wall –Structure and Functions	18/4/2023	Diksha
16	Gaurav M. Avhale	Chromosome- Morphology	18/4/2023	G.M. Avhale
17	Gaurav R. Rathod	Structural aberrations of chromosome	18/4/2023	G.Rathod

18	Hassan R.Khan	Nomenclature of Enzymes	18/4/2023	Hassan
19	Indrajeet P. Tirsinge	Structural aberrations of chromosome	18/4/2023	Indrajeet
20	Jayshri S.Solanke	Plasma membrane –Structure and Functions	18/4/2023	J.S.Solanke
21	Jyotsna G. Laybar	Gene mutations- Spontaneous and Induced	18/4/2023	Jyotsna
22	Leena G. Ghodeswar	Plasma membrane –Structure and Functions	18/4/2023	Leena
23	Maaz M. Sayyed	Characteristics of Enzymes	18/4/2023	Maaz
24	Mamta V. Vaidya	Chromosome- Morphology	18/4/2023	Mamta
25	Mohini S.Makode	Gene mutations- Spontaneous and Induced	18/4/2023	Mohini
26	Nayana D. Gopnarayan	Plasma membrane –Structure and Functions	18/4/2023	Nayana
27	Pallavi V.Khune	Plasma membrane –Structure and Functions	18/4/2023	P.V.Khune
28	Payal D.Burade	Nomenclature of Enzymes	18/4/2023	Payal
29	Pooja D. Zodape	Nomenclature of Enzymes	18/4/2023	Pooja
30	Prajakta P.Inzalkar	Cell cycle: Meiosis	18/4/2023	Prajakta
31	Prince A.Nandagawal	Characteristics of Enzymes	18/4/2023	Prince
32	Reva M. Gedam	Cell cycle: Meiosis	18/4/2023	Reva
33	Rohini J. Bahurupi	Gene mutations- Spontaneous and Induced	18/4/2023	Rohini
34	Rushi S. Gadge	Characteristics of Enzymes	18/4/2023	Rushi
35	Sakshi S. Bavankule	Gene mutations- Spontaneous and Induced	18/4/2023	S.S.Bavankule
36	Salman Kh.Y.Khan	Structural aberrations of chromosome	18/4/2023	Salman
37	Sanika S. Lute	Cell cycle: Meiosis	18/4/2023	Sanika
38	Sk. Sohel Sk. Rashid	Structural aberrations of chromosome	18/4/2023	Sk.Sohel
39	Shraddha R. Dhage	Cell cycle: Meiosis	18/4/2023	S.R.Dhage
40	Sneha M. Satpaise	Cell cycle: Mitosis	18/4/2023	S.M.Satpaise
41	Syed U. Syed Jameel	Characteristics of Enzymes	18/4/2023	S.S.Jameel
42	Tejas P. Tambatkar	Chromosome- Morphology	18/4/2023	T.P.Tambatkar
43	Vaishnavi A. More	Cell cycle: Mitosis	18/4/2023	V.A.More
44	Vaishnavi R. Ghawat	Cell cycle: Mitosis	18/4/2023	V.R.Ghawat
45	Yogini L. Mate	Cell cycle: Mitosis	18/4/2023	Y.L.Mate
46	Zuberkha G. Pathan	Characteristics of Enzymes	18/4/2023	Z.G.Pathan

Dr. Suchita Khodke
Head, Department of Botany
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Pravin Khodke Memorial Trust, Amravati's
Vinayak Vidnyan Mahavidyalaya
Nandgaon khandeshwar, Dist-Amravati



Department of
Botany

PROJECT
B.Sc.III Sem VI

Academic Session 2023-24

PROJECT TOPIC: DNA Packaging Nucleosome and solenoid

Project Submitted by: Arpita padiprao Thakare
Aman Makibani, Amruta kale, Ashutosh
Ingole

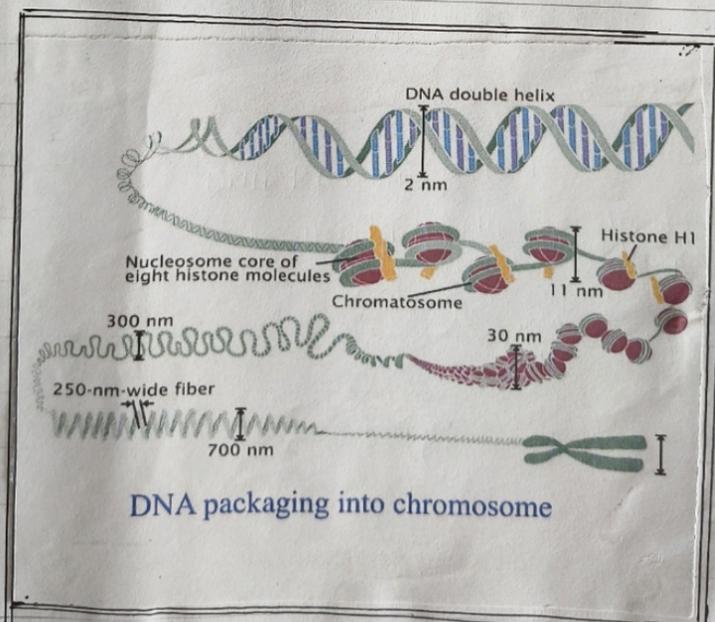
Smellye
Supervisor
Dr. Suchita Khodke
Dept. of Botany
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.

Smellye
Head of Department
Dr. Suchita Khodke
Dept. of Botany
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.

Date: 20/04/2024
Supervisor Remark _____

∴ Contain ∴-

- Introduction
- Need for Packaging
- Packaging of DNA into nucleus
- order of Packaging
- 1st order - Nucleosome
proteins involved in packaging
Components of Nucleosome
- 2nd order - Solenoid fiber
- 3rd order - Chromatids
- 4th order - chromosome
- Conclusion
- Reference



:- INTRODUCTION :-

• DNA Packaging - Nucleosome and solenoid

DNA is the only components of chromosome which acts as a heredity materials

→ The most important property of DNA is usper

Coiling DNA is condensed in to a complex structure with histone and non-histone proteins DNA is wrapped around a core of histone molecule and non-histone molecule and non-histone are some how associated with that complex.

chromatin - In the nucleoplasm of interphase nucleus a dark network is seen which is formed of chromatin. The chromosome during interphase becomes very loosely coiled, long, thin, thread, spread throughout the nucleus this is called as chromatin (meaning coloured materia) This means that the chromosome in the interphase are called as chromatin. Chromatin consists of DNA proteins and very small amount of RNA. Reger Kamberg in 1974 reported that chromosome is made of DNA and protein. The organization of DNA is much complex in eukaryotes. Each chromosome contains a single DNA molecule extending from one end of the chromosome to the other end. DNA molecule extending from one end of DNA packaging.

Packaging of DNA in nucleus

The DNA structure was proposed by Watson and Crick. According to them the DNA is a double-helical structure with two polynucleotide strands running anti-parallel to each other. This double helix is negatively charged due to the presence of phosphate groups in the DNA backbone.

The cell makes histone proteins that bind the DNA to counterbalance the negative charge. These histone proteins are involved in DNA packaging. Have you ever wondered how DNA is present in a nucleus smaller than it? This can be explained by the process of DNA packaging. DNA is an organic complex molecular structure found in both prokaryotic and eukaryotic cells and also in many viruses. It is a hereditary material which is found in the nucleus of the cell and is mainly involved in carrying genetic information.

The DNA structure has the following characteristics:
• The strands of the DNA are helically wound. Every single strand forms a right-handed coil. The pitch of each helix is 3.32 nm, and about 10 nucleotides make up one turn. The distance between two succeeding base pairs is 0.34 nm.

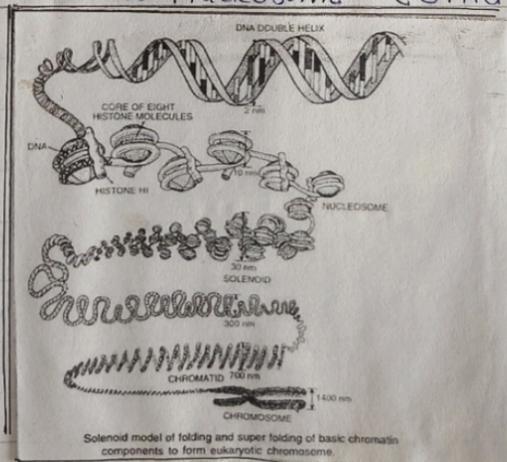
The proteins in the chromatin are two types

- 1) Basic proteins or Histones
- 2) Non-histone chromosomal proteins.

Histones :- Histones are basic proteins which are important structural component of the chromosome or chromatin. They are present in the equal amount as DNA in the chromatin of eukaryotes. The histones of all the plants and animals consist of five different major proteins. These five major histones are called as H1, H2a, H2b, H3 and H4. Histone in combination with DNA form the basic structural subunits of chromatin or chromosome which are called as nucleosomes.

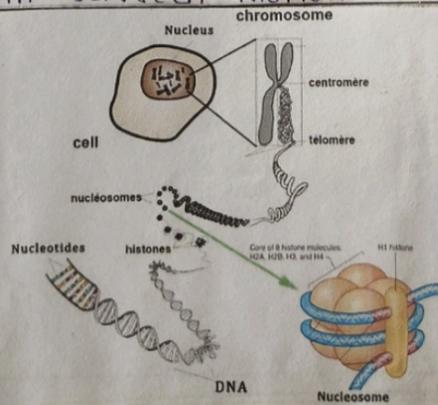
Nucleosome :-

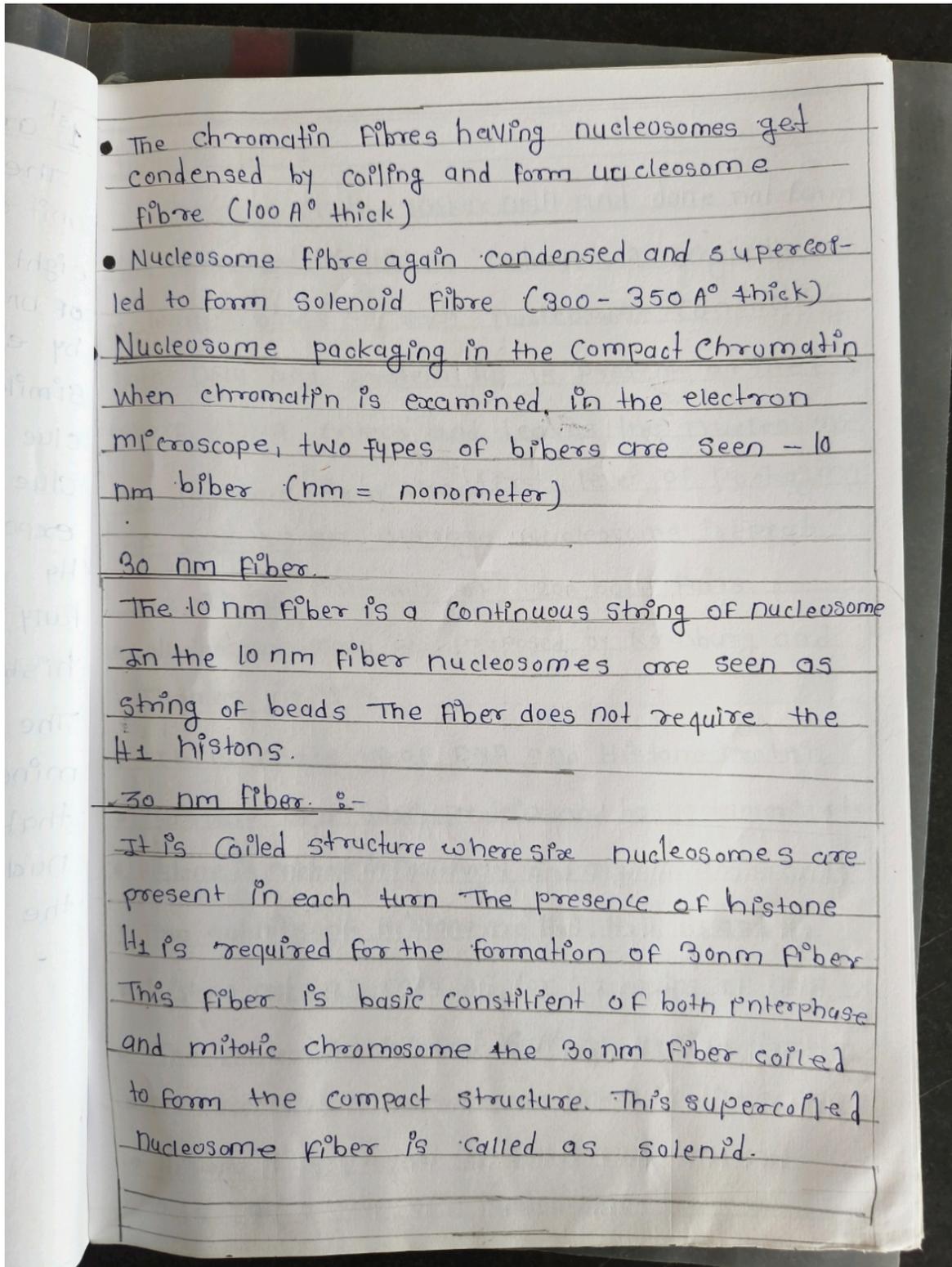
The fundamental subunit of chromatin made up of histone and DNA is called as Nucleosome. The nucleosome contains



1st Order - Nucleosome

The basic repeating structural (and functional) unit of chromatin is the nucleosome which contain eight histone proteins and about 146 base pairs of DNA (Van Holde 1988: Wiffle) The observation by electron microscopists that chromatin appeared similar to beads on a string provided an early clue that nucleosome exist (olins and olins another clue come from chemically cross-linking) This experiment demonstrated that H₂A, H₂B, H₃ and H₄ form a discrete protein octamer which is fully consistent with the presence of a repeating histone-containing unit in the chromatin fiber. The amount of DNA per nucleosome was determined by treating chromatin with an enzyme that cuts DNA one such enzyme micrococcal nuclease has the important property of cutting the linker DNA between mononucleosome.





Histone H₁ :-

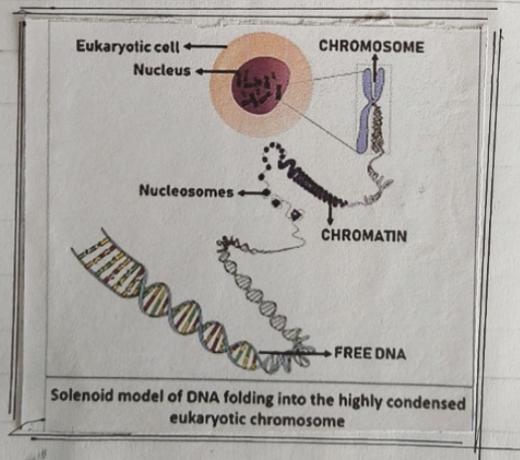
is present on the linker DNA and does not form the component of Histone octamer. A single H₁ molecule binds to each nucleosome contacting both DNA and protein. H₁ is present at the point where DNA enters and leaves the nucleosome. Nucleosomes form the first level of packaging of DNA. On an average, nucleosome repeats are at the intervals of 200 base pairs.

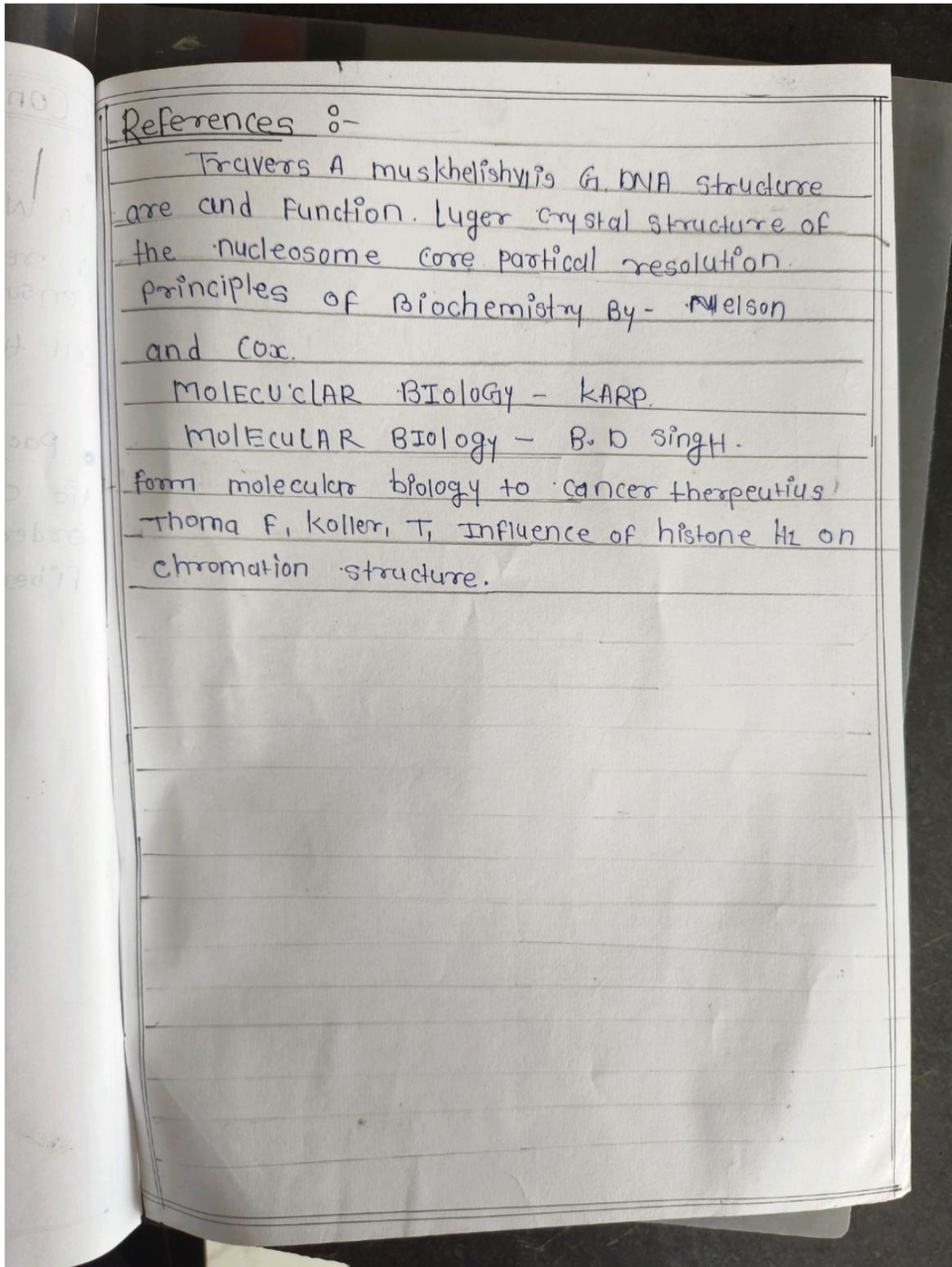
- Nucleosome model was proposed by Kornberg and Thomas in 1974
- It is made up of DNA and histone protein
- Histone is a basic protein and has octameric structure
- Histone is rich in positively charged arginine amino acids
- The subunits of histone are H_{2A}, H_{2B}, H₃ and H₄
- Histone acts as a core for packaging of DNA
- The nucleosome is about 60 Å high and 110 Å in diameter
- The successive nucleosomes are linked by linker DNA
- Histone H₁ is present on linker DNA and does not act as a part of nucleosome

:-Conclusion :-

• A single human cell contains enough DNA to wrap around the cell over 15,000 times. As a result DNA packing is critical because it ensures that the extra DNA can fit into a cell that is several times smaller.

• Packaging is a characteristic feature of eukaryotic chromosomal organization. It involves various orders like formation of nucleosome, solenoid fiber and then chromosome.







Pravin Khodke Memorial Trust Amravati's
Vinayak Vidnyan Mahavidyalaya
Tq. Nandgaon Khandeshwar, Dist. Amravati

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that this project report contains the bonafide record of the Project work entitled Classical Free Electron theory submitted by Mr./Ms. Gitanjali G. Gudade of B.Sc. (Physics) Part: II Semester: IV as prescribed by Sant Gadge Baba Amravati University, Amravati during the Academic year 2023-2024

Dated: 18 / 12 / 2023

Teacher-In-Charge

Signature of the Teacher who taught the examinee

1.

2.

Date:

Place: Nandgaon Khandeshwar, Dist. Amravati.

Head

Department of Physics
Dr. Anant S. Wadtkar
Assistant Professor and Head
Department of Physics
Vinayak Vidnyan Mahavidyalaya
Nandgaon (Kh.), Dist. Amravati

INTRODUCTION

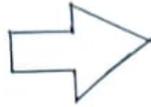
- Classical free electron theory is a fundamental concept in quantum mechanics.
- This presentation explores the assumptions, successes, and limitations of this theory.
- The aim is to deepen our understanding of the theory and its impact on modern physics.
- The classical free electron theory was proposed by Drude and Lorentz in 1900.
- It was later improved upon by the quantum free electron theory, which assumes electrons obey quantum mechanics.

ASSUMPTIONS OF CLASSICAL FREE ELECTRON THEORY

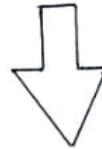
- 1] The valence electrons of atoms are free to move about the whole volume of the metal.
- 2] The free electrons move in random direction and collide with either positive ions fixed to the lattice.
- 3] All the collisions are elastic in nature i.e., there is no loss of energy.
- 4] The momentum of free electrons obeys the laws of the classical kinetic theory of gases.
- 5] The electron velocities in a metal obey classical Maxwell-Boltzmann distribution of velocities.
- 6] When the electric field is applied, the free electrons are accelerated opposite to the direction of applied electric field.
- 7] These are the assumptions of CFET.

IMITATIONS OF CLASSICAL FREE ELECTRON THEORY

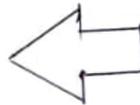
It cannot explain why only some crystals are metallic in nature.



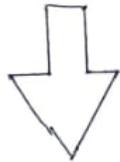
It cannot explain why the metals prefer only certain structure e.g. Fe is cubic while Zn is hexagonal.



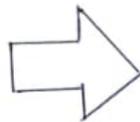
It cannot explain the temperature variation of electrical conductivity,



It cannot explain why the observed specific heat of metals is only $\frac{1}{2}$ of the calculated value (i.e. $\frac{3}{2}N$) where N is no. of free electrons.

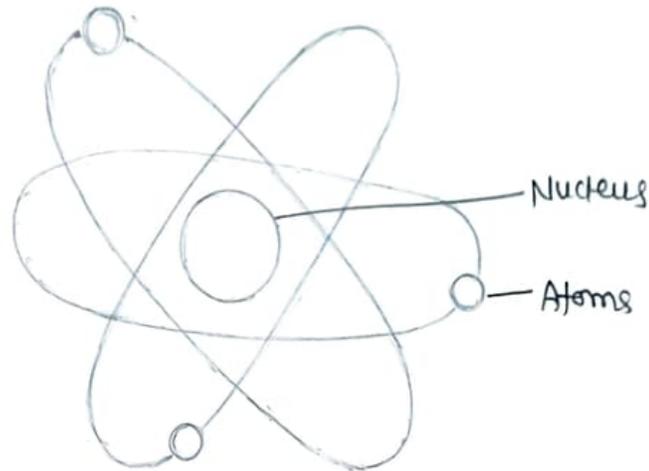


It cannot explain the paramagnetic behaviour of metals.



It also could not explain the occurrence of long mean free paths at low temperatures.

SUCCESS OF CLASSICAL FREE ELECTRON THEORY



Despite its limitations, classical free electron theory has been successful in explaining some important phenomena. For example, it can explain the electrical conductivity of metals and the behaviour of electrons in a magnetic field. The theory has also been used in the development of modern technologies like semiconductors and transistors.

BASIC TERMS INVOLVED IN CPET

Drift Velocity (V_d) :- The drift velocity is defined as the average velocity acquired by the free electron in particular direction, due to the applied electric field.

Drift Velocity = $\frac{\text{Average distance travelled by the electron}}{\text{Time taken}}$

$$V_d = \frac{\lambda}{t} \text{ ms}^{-1}$$

Mobility :- The mobility is defined as the drift velocity (V_d) acquired by the electron per unit electric field (E).

$$\mu = \frac{V_d}{E} \text{ m}^2 \text{ V}^{-1} \text{ s}^{-1}$$

Mean free path :- The average distance travelled by a electron between two successive collision is called mean free path.

Mean collision time (or) collision time :- It is the time taken by the free electron between two successive collision.

$$\tau_c = \frac{\lambda}{V_d} \text{ sec}$$

Relaxation time :- It is the time taken by the electron to reach equilibrium position from disturbed position in the presence of electric field where λ is the distance travelled by the electron. The value of relaxation time is of the order of 10^{-14} sec.

$$\tau = \frac{\lambda}{V_d} \text{ sec}$$

Band gap (E_g) :- Band gap is the energy difference between the minimum energy of conduction band and the maximum energy of valence band.

Current density (J) :- It is defined as the current per unit area of cross section of an imaginary plane hold normal to the direction of the flow of current in a current carrying conductor.

$$J = \frac{I}{A} \text{ Am}^{-2}$$

These all points are the basic terms involved in a classical free electron theory.

CONCLUSION

The classical free electron theory explains the electrical and thermal conductivity of metals, as well as Ohm's law, using the laws of classical mechanics.

However, it has some drawbacks, such as being unable to explain ferromagnetism, the specific heat of metals, and the photoelectric effect.

Here are some conclusions of the classical free electron theory:

Free electrons, Random motion, Elastic collisions, Electric field, Resistance, etc.

REFERENCE

The CFET is a theory that explains electrical conduction in metals. It was proposed by P. Drude in 1900 and developed by Lorentz in 1909.

The theory states that metals with free electrons obey the laws of classical mechanics.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar
Department of Physics
NOTICE

All the students of B.Sc. physics III year in the **academic year 2023-24** are here by inform that student must completed the project prepare a project report with help of concern teacher mentioned in the table below and submit it before **5th April 2024** on the topic assigned In the table below.

LIST OF STUDENTS

Class : B.Sc III Sem V and VI

Subject : Physics

Programme name: PHY BSc. III Program Code : PHY SEM-V and PHY SEM-VI

Sr. No.	Name	Topic	Guide
1.	Chetan Ganeshrao Vaidya	Water Level Indicator	Dr. A.S. Wadatkar
2.	Komal Rajesh Narode		
3.	Pratik Rajendra Shendre	Renewable Energy Sources	Dr. A.S. Wadatkar
4.	Sakshi Hemantrao Sonone		
5.	Sameer Damodhar Dhokane	E Waste Management In India	Dr. P. B. Kharat
6.	Shyam Niranjana Kanse		
7.	Vaishnavi Ratnakar Belsare	Optical Fiber Communication	Dr. P. B. Kharat
8.	Aachal Rajesh Tobre		
9.	Nikhil Rajendra Dabre	Three Digit Counter Machine	Dr. P. B. Kharat
10.	Pratik Dattatray Khandar		
11.	Yash Vinod Ravekar	Satellite Communication	Mr. A. V. Ambhore
12.	Ajinkya Sureshrao Daroi		
13.	Pratik Jayvantrao Gadekar	Applications of Laser	Mr. A. V. Ambhore
14.	Prerna Sanjay Deshmukh		
15.	Shantanu Avinash Solanke	Applications of Solar Energy	Mr. A. V. Ambhore
16.	Vijay Niranjana Gedam		

Mr. A. V. Ambhore

Dr. P. B. Kharat

Dr. A.S. Wadatkar

Dr. Anant S. Wadatkar
Assistant Professor and Head
Department of Physics
Vinayak Vidnyan Mahavidyalaya
Nandgaon (Kh.), Dist.Amravati

APPLICATIONS OF LASER

Mr. Pratik J. Gadekar
Ms. Prerna Sanjay Deshmukh



VINAYAK VIDNYAN MAHAVIDYALAYA,
NANDGAON KH.

Contents:

- ❖ Introduction
- ❖ Industrial Applications
- ❖ Medical Applications
- ❖ Other Applications

• **Laser Stands For
Light
Amplification by
Stimulated
Emission of
Radiation**

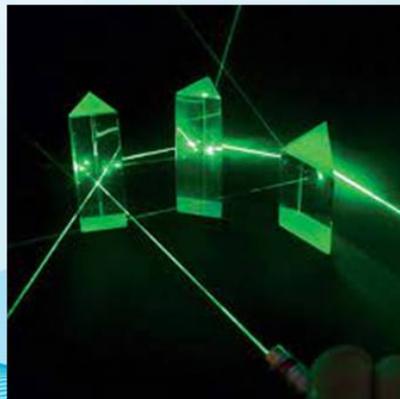
- Laser is a device which emits powerful monochromatic collimated beam of light
- The emitted light wave are coherent in nature.
- The development of laser is extremely rapid.
- The laser action is being demonstrated in many solids liquids gases and semiconductors.

❖ **Industrial Applications**

- **Lasers are used in industries for applications like cutting and welding metals and fabrics.**
- **Highly focused spot, where the heating is very much localized.**
- **In printing technology lasers can be used.**



- **Laser beam is highly energetic so it can be used as war weapon.**
- **Lasers are used for high speed of processing.**
- **Lasers are used for testing the quality of optical components such as prisms and lenses..**



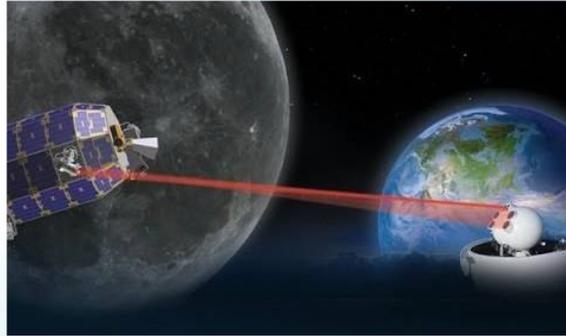
❖ **Medical Applications**

- **Laser has been used in ophthalmology in the treatment of detached retina.**
- **Laser beam is used in the surgery of cancer.**
- **In the treatment of liver, lungs, and developing tumors, laser beam can be used.**
- **Laser technology makes many surgical procedures less painful for patient.**

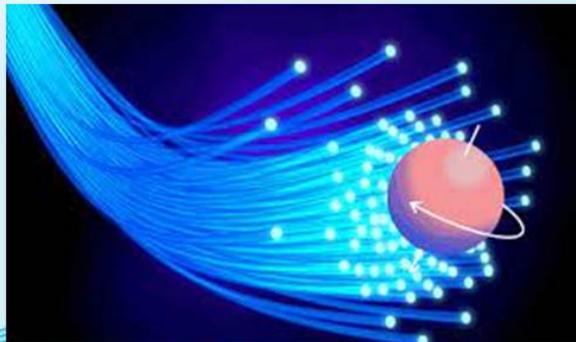


❖ Other Applications

▪ Laser is used to measure the distance between earth to the moon.



▪ Lasers are used to fiber optics communications systems.



❖ Other Applications

▪ Laser is used to read the barcode



▪ Lasers are used in Holography.



Department of Chemistry

Class: B.Sc. Part III Semester V

Date: 4th October 2023

STUDENT LIST WITH TOPICS

Sr. No.	Name of Student	Topic	Sub Topic	Signature of Student
1	Aarati Nandkishor Mokalekar	<u>"Medicines used for the treatment of Wilkinson's Disease"</u>	Penicillamine	A.N. Mokalekar
2	Adarsh Sanjayrao Pande			Adarsh
3	Adeeba Anam Ikramuddin			Adeeba
4	Aditya Kishor Pawar			A.K. Pawar
5	Aniket Rupraoji Chawale			A.R. Chawale
6	Aniket Sambhaji Meshram			Aniket
7	Anisha Vijay Deshmukh			Anishavijay
8	Ankush Maroti Jadhao		Ankush	
9	Anushri Gajanan Rohankar		Anushri	
10	Ashwini Dhanraj Tirmare		Ashwini	
11	Ashwini Ravindra Wankhade		Ashwini	
12	Ayan Naim Khan		Ayan	
13	Bhushan Yogeshwar Chawale		Bhushan	
14	Chetan Ganeshrao Vaidya		Chetan	
			Trientine	


Mr. Nitesh S. Padole
In-Charge Teacher


Mr. Nitesh S. Padole
Head of Department
Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Department of Chemistry

Class: B.Sc. Part III Semester V

Date: 4th October 2023

STUDENT LIST WITH TOPICS

Sr. No.	Name of Student	Topic	Sub Topic	Signature of Student
1	Disha Vijay Khobragade	<u>The different methods used in the Synthesis of "Talcum Powder".</u>	NIVEA	Dvkhoobragade
2	Hassan Ahmad R. Khan			Hassankhan
3	Jayshri Shamraoji Solanke			J.s. Solanke
4	Jyotsna Gajanan Laybar			J.Laybar
5	Komal Rajesh Narode			Komalnarode
6	Leena Ganesh Ghodeswar			Lghodeswar
7	Mohini Sunil Makode			Mmakode
8	Nayana Dadarao Gopnarayan		SPINZ	Nayana Gopnarayan
9	Pallavi Vilas Khune			P.V. Khune
10	Prajakta Pramod Inzalkar			P.Inzalkar
11	Pratik Rajendra Shendre			P.Shendre
12	Prince Arvind Nandagawali			P.Nandagawali
13	Reva Mahendra Gedam			R.Gedam
14	Rohini Jagdish Bahurupi			R.Bahurupi


Dr. Kavita P. Kakade
In-Charge Teacher


Mr. Nilesh S. Padole
Head of Department
Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Department of Chemistry

Class: B.Sc. Part III Semester V

Date: 10th November 2022

STUDENT LIST WITH TOPICS

Sr. No.	Name of Student	Topic	Sub Topics	Signature of Student
1	Sakshi Hemantrao Sonone	Nobel Laurates	George Wittig	<i>Sonone</i>
2	Sakshi Shyam Bavankule			<i>Bavankule</i>
3	Sanika Sahadev Lute			<i>Lute</i>
4	Sayyed Maaz Misbahuddin			<i>SM</i>
5	Shraddha Rajkumar Dhage			<i>S.R. Dhage</i>
6	Shyam Niranjan Kanse			<i>Shyam Kanse</i>
7	Sneha Manohar Satpaise		Otto Diels and Kuhn Alder	<i>S.M. Satpaise</i>
8	Vaishnavi Anil More			<i>V.A. more</i>
9	Vaishnavi Rajendra Ghawat			<i>RGhawat</i>
10	Vaishnavi Ratnakar Belsare			<i>RBelsare</i>
11	Yogini Lileshwar Mate			<i>Mate</i>
12	Zuberka Gaffarkha Pathan			<i>Pathan</i>
13.	Sameer D. Dhormane		<i>Dhormane</i>	

Sherekar
Dr. Vinod M. Sherekar
In-Charge Teacher

Padole
Mr. Nilesh S. Padole
Head of Department
Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Department of Chemistry

Class: B.Sc. Part III Semester V

Date: 16th October 2023

PROJECT SUBMISSION LIST

Sr. No.	Name of Student	Topic	Sub Topics	Signature of Student
1	Aarati Nandkishor Mokalekar	<u>"Medicines used for the treatment of Wilkinson's Disease"</u>	Penicillamine	<i>A. N. Mokalekar</i>
2	Adarsh Sanjayrao Pande			<i>A. Pande</i>
3	Adeeba Anam Ikramuddin			<i>Adibiz</i>
4	Aditya Kishor Pawar			<i>A. K. Pawar</i>
5	Aniket Rupraoji Chawale			<i>A. Chawale</i>
6	Aniket Sambhaji Meshram			<i>A. Meshram</i>
7	Anisha Vijay Deshmukh			<i>A. Deshmukh</i>
8	Ankush Maroti Jadhao		Trientine	<i>A. Jadhao</i>
9	Anushri Gajanan Rohankar			<i>A. Rohankar</i>
10	Ashwini Dhanraj Tirmare			<i>A. Tirmare</i>
11	Ashwini Ravindra Wankhade			<i>A. Wankhade</i>
12	Ayan Naim Khan			<i>A. Khan</i>
13	Bhushan Yogeshwar Chawale			<i>B. Chawale</i>
14	Chetan Ganeshrao Vaidya			<i>C. Vaidya</i>

[Signature]
Mr. Nilesh S. Padole
In-Charge Teacher

Remark:

[Signature]
Mr. Nilesh S. Padole
Head of Department
Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Department of Chemistry

Class: B.Sc. Part III Semester V

Date: 16th October 2023

PROJECT SUBMISSION LIST

Sr. No.	Name of Student	Topic	Sub Topics	Signature of Student
1	Disha Vijay Khobragade	<u>The different methods used in the Synthesis of</u>	NIVEA	<i>D.V. Khobragade</i>
2	Hassan Ahmad R. Khan			<i>Hasan Khan</i>
3	Jayshri Shamraoji Solanke			<i>J.S. Solanke</i>
4	Jyotsna Gajanan Laybar			<i>J.Laybar</i>
5	Komal Rajesh Narode			<i>K.Narode</i>
6	Leena Ganesh Ghodeswar			<i>L.Ghodeswar</i>
7	Mohini Sunil Makode			<i>M.Makode</i>
8	Nayana Dadarao Gopnarayan	<u>"Talcum Powder".</u>	SPINZ	<i>N.Gopnarayan</i>
9	Pallavi Vilas Khune			<i>P.V. Khune</i>
10	Prajakta Pramod Inzalkar			<i>P.Inzalkar</i>
11	Pratik Rajendra Shendre			<i>P.Shendre</i>
12	Prince Arvind Nandagawali			<i>P.Nandagawali</i>
13	Reva Mahendra Gedam			<i>R.Gedam</i>
14	Rohini Jagdish Bahurupi			<i>R.Bahurupi</i>

Kakade
Dr. Kavita P. Kakade
In-Charge Teacher

Remark:

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Head of Department
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Department of Chemistry

Class: B.Sc. Part III Semester V

Date: 16th October 2023

PROJECT SUBMISSION LIST

Sr. No.	Name of Student	Topic	Sub Topics	Signature of Student
1	Sakshi Hemantrao Sonone	Nobel Laurates	George Wittig	<i>Sonone</i>
2	Sakshi Shyam Bavankule			<i>Bavankule</i>
3	Sanika Sahadev Lute			<i>SLS</i>
4	Sayyed Maaz Misbahuddin			<i>SM</i>
5	Shraddha Rajkumar Dhage			<i>S. D. Dhage</i>
6	Shyam Niranjan Kanse			<i>Shyambhose</i>
7	Sneha Manohar Satpaise		Otto Diels and Kuhn Alder	<i>S.M. Satpaise.</i>
8	Vaishnavi Anil More			<i>VA. more</i>
9	Vaishnavi Rajendra Ghawat			<i>RG Ghawat.</i>
10	Vaishnavi Ratnakar Belsare			<i>V.R. Belsare</i>
11	Yogini Lileshwar Mate			<i>Mate</i>
12	Zuberka Gaffarkha Pathan			<i>Zuberka Pathan</i>

13. Sameer D. Phomane

Sherekar
Dr. Vinod M. Sherekar
In-Charge Teacher

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Mr. Nilesh S. Padole
Head of Department
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Remark:

Date: 4th October 2023

Department of Chemistry

Topic Detail for Class Project

Session- 2023-24 (Winter)

Class: B.Sc. Part III Semester V

PROJECT LIST OF TOPICS WITH IN-CHARGE TEACHER

<u>Sr. No</u>	<u>Name of the Teacher</u>	<u>Topic</u>	<u>Sub topic</u>	<u>Number of Students</u>
<u>1</u>	<u>Mr. Nilesh S. Padole</u>	<u>"Medicines used for the treatment of Wilkinson's Disease".</u>	A) <u>Penicillamine</u> B) <u>Trientine</u>	<u>14</u>
<u>2</u>	<u>Dr. Kavita P. Kakade</u>	<u>The different methods used in the Synthesis of "Talcum Powder".</u>	A) <u>Nivea</u> B) <u>Spinz</u>	<u>14</u>
<u>3</u>	<u>Dr. Vinod M. Sherekar</u>	<u>Nobel Laurates in Chemistry</u>	A) <u>George Wittig</u> B) <u>Otto Diels and Kuhn Alder</u>	<u>12</u>

N. Padole
Mr. Nilesh S. Padole
Head
Department of Chemistry
Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KH.

DEPARTMENT OF CHEMISTRY

Class: B.Sc. Part III Semester VI

Date: 26th March 2024

STUDENT LIST WITH TOPICS

Sr. No.	Name of Student	Topic	Signature of Student
1	Aarati Nandkishor Mokalekar	DETERMINATION OF P ^H OF SOIL SAMPLES COLLECTED FROM VARIOUS REGIONS OF NANDGAON KHANDESHWAR	A. N. Mokalekar
2	Adarsh Sanjayrao Pande		A. Pande
3	Adeeba Anam Ikramuddin		Adeeba
4	Aditya Kishor Pawar		A. K. Pawar
5	Aniket Rupraoji Chawale		A. Chawale
6	Aniket Sambhaji Meshram		A. Meshram
7	Anisha Vijay Deshmukh		A. Deshmukh
8	Ankush Maroti Jadhao	CHEMICAL CONTENTS OF FLOWERS	A. Jadhao
9	Anushri Gajanan Rohankar		A. Rohankar
10	Ashwini Dhanraj Tirmare		A. Tirmare
11	Ashwini Ravindra Wankhade		A. Wankhade
12	Ayan Naim Khan		A. Khan
13	Bhushan Yogeshwar Chawale		B. Chawale
14	Chetan Ganeshrao Vaidya		C. Vaidya

Kakade
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VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KH.

DEPARTMENT OF CHEMISTRY

Class: B.Sc. Part III Semester VI

Date: 26th March 2024

STUDENT LIST WITH TOPICS

Sr. No.	Name of Student	Topic	Signature of Student
1	Disha Vijay Khobragade	CHEMICAL CONTENTS AND MEDICINAL USES OF SPICES	D.K. Khobragade
2	Hassan Ahmad R. Khan		Hassan Khan
3	Jayshri Shamraoji Solanke		J.S. Solanke
4	Jyotsna Gajanan Laybar		Jy. Laybar
5	Komal Rajesh Narode		Komal Narode
6	Leena Ganesh Ghodeswar		L. Ghodeswar
7	Mohini Sunil Makode		M. Makode
8	Nayana Dadarao Gopnarayan	SEPARATION OF KERATIN PROTEIN FROM HUMAN HAIR.	N. Gopnarayan
9	Pallavi Vilas Khune		P.V. Khune
10	Prajakta Pramod Inzalkar		P. Inzalkar
11	Pratik Rajendra Shendre		P. Shendre
12	Prince Arvind Nandagawali		P. Nandagawali
13	Reva Mahendra Gedam		R. Gedam
14	Rohini Jagdish Bahurupi		R. Bahurupi


Mr. Nilesh S. Padole
In-Charge Teacher


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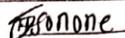
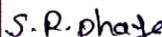
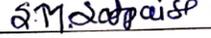
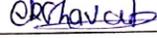
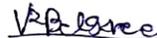
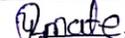
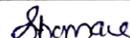
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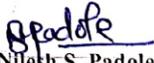
Class: B.Sc. Part III Semester VI

Date: 26th March 2024

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13	Sameer Dhomane		


Dr. Vinod M. Sherekar
In-Charge Teacher


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Nandgaon Khandeshwar

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KH.

DEPARTMENT OF CHEMISTRY

Class: B.Sc. Part III Semester VI

Date: 15th April 2024

PROJECT SUBMISSION LIST

Sr. No.	Name of Student	Topic	Signature of Student
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7	Anisha Vijay Deshmukh		A. Deshmukh
8	Ankush Maroti Jadhao	CHEMICAL CONTENTS OF FLOWERS	A. Jadhao
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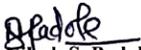
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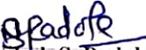
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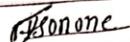
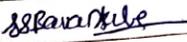
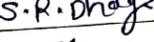
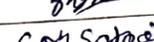
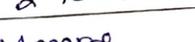
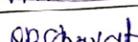
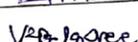
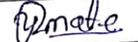
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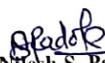
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PRAVIN KHODKE MEMORIAL TRUST'S,
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DEPARTMENT OF CHEMISTRY

ACADEMIC SESSION

2023-2024 (Summer)

Project Submission

Name of the Student: Bhushan Yogeshwar Chawale

Class: B.Sc. Part III Semester VI

Project Topic: Chemical Contents of Flowers

Name of the supervisor: Dr. Kavita P. Kakade

**Supervisor remark
with sign and date:**

Kakade
06/04/24

Date of submission of Project: 15th April 2024

Padole
**Head of Department
Mr. Nilesh S. Padole**

Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Chemical Contents of Flowers



Contents

1] Marigold

2] Mogra

3] Hibiscus

4] Rose

5] Catharanthus roseus

6] Calotropis Procera

Introduction

← The World Health organization (WHO) has declared that total mortality due to cancer will increase to 12 millions in 2030 whereas this number was only 7.6 million in 2005

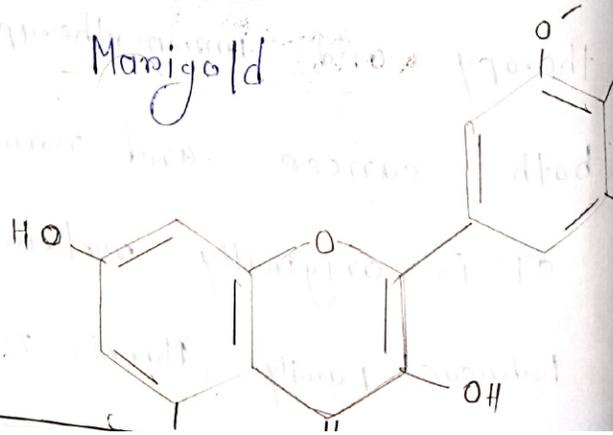
← Treatment used against cancer such as chemotherapy radiation hormone therapy and immunotherapy can kill both cancer and normal cells

ET is originally related to leguminose (Fabaceae) family (Morris 2009)



Marigold

Chemical structure:-



Marigold

Tagetes patula - the french marigold is a species of flowering plant in the family Asteraceae native to Mexico and Guatemala with several naturalised populations in many countries

Chemical contents:-

The Major compounds of *Tagetes patula* essential oil were

β -caryophyllene (24.53%)

piperitenone (10.96%)

piperitone (9.66%)

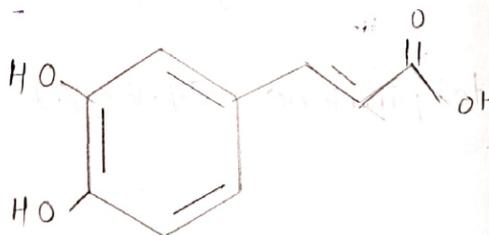
α -terpinolene (7.62%)



chemical structure

Mogra

Jasminum sambac :-



caffeic acid

Mogra

Mogra is a type of jasmine flower commonly used in India for religious and cultural ceremonies and to make perfumes and garland.

The leaves are used for the treatment of tumors.

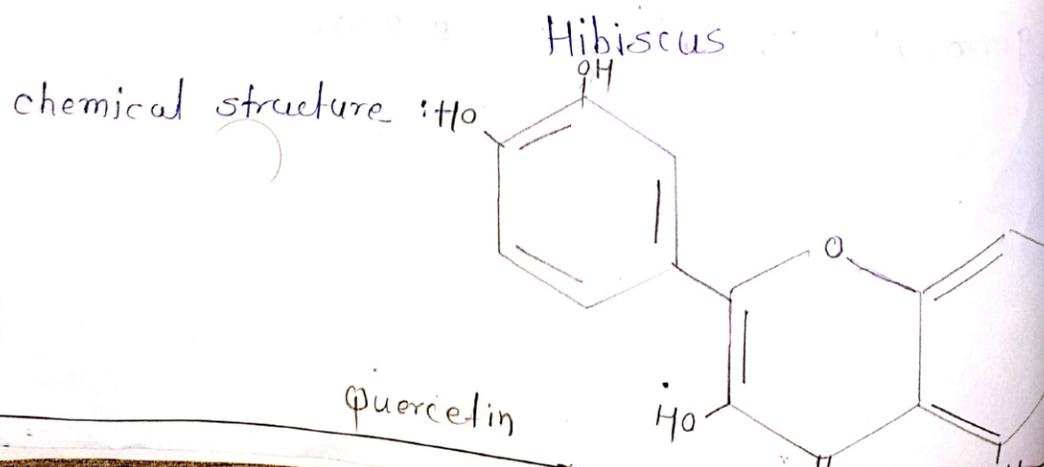
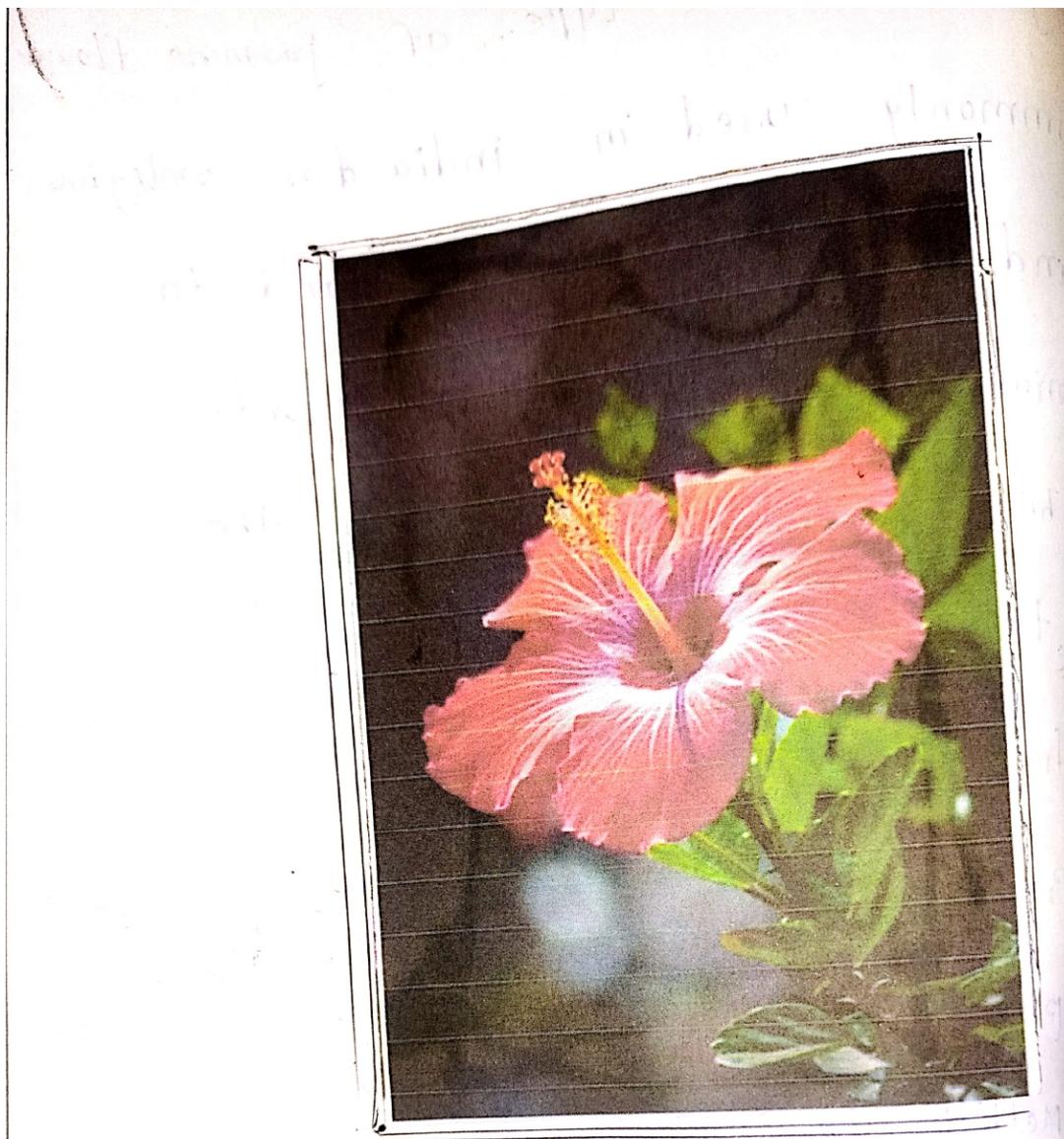
Chemical contents :-

Benzyl benzoate 0.67%

phytol

Methyl linolenate 8.23%

geranyl linalate 2.23%



Hibiscus

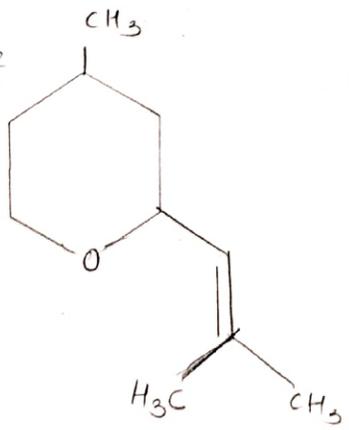
The common hibiscus (*Hibiscus rosa-sinensis*) is an evergreen shrub belonging to the cotton family Malvaceae which comprises about 300 species

Chemical contents: -

Flavonoids	sasquiterpene
anthocyanins	quinones
terpenoids	naphthalene
steroids	
polysaccharide	
alkaloids	
amino acids	
lipids	



chemical structure



Rose

Rose oxide

Rose

Rosa rubiginosa is the scientific name for Rose.

There are approximately 360 known species of roses

Chemical contents:-

The composition of rose was phenyl

ethylalcohol (72.73-73.80%)

citronella (10.62-11.26%)

nerol (2.92-2.97%)

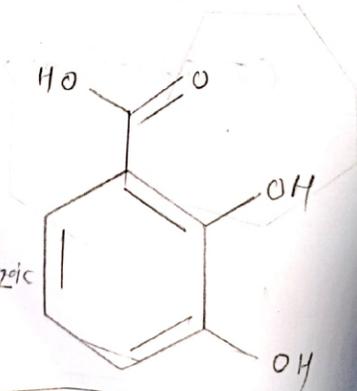
geraniol (5.58-5.65%)



chemical
structure :-

Catharanthus roseus

2,3-dihydroxybenzoic
acid



Catharanthus roseus

Madagascar periwinkle is the

Scientific name of *Catharanthus roseus*

It is native and endemic to Madagascar

but is grown elsewhere as an ornamental
and medicinal plant.

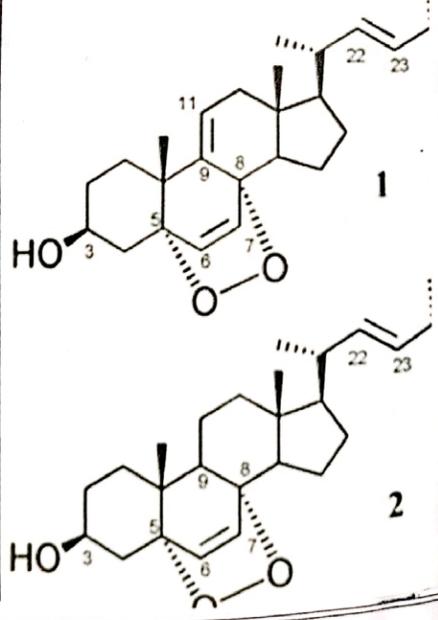
Chemical contents:-

The main constituents of the white
flower *C. roseus* were: limonene

(23.2%) dodecyl alcohol (9.8%)

geraniol (7.3%) citral (7.0%)

Calotropis Procera



Calotropis Procera

Calotropis belongs to the Apocynaceae Family, which is commonly known as Milkweed or Aak. Plants of this genus are known as milkweeds due to the exudation of white and sticky latex from different parts.

Chemical contents :-

Cardenolides

Steroids

Tanins

Sugars

alkaloids

glycosides

phenols

Terpenoids

Medicinal Uses of Flowers

Marigold	To treat wounds for inflammation of the skin and mucous membranes.
Mogra	Mogra water has soothing ingredients that can support irritated itchy dry skin and even prevent acne outbreaks.
Hibiscus	lower blood pressure. reduce levels of sugar and fats
Rose	Treatment of inflammation Diabetes, dysmenorrhea, depression
catharanthus roseus	Treatment of Many types of cancer, diabetes, stomach disorders
calotropis Procera	Digestive disorders, toothache, cramps, joint pain

Reference

[https:// en.m .wikipedia .org](https://en.m.wikipedia.org)

[https:// www. sciela .org .co](https://www.scielo.org.co)

[www. ncbi .nlm nih .gov](http://www.ncbi.nlm.nih.gov)

[https:// learn . genetics .utah .edu](https://learn.genetics.utah.edu)

[https:// www. sciencedirect .com](https://www.sciencedirect.com)

Department of

ZOOLOGY



Notice:

This is to inform to the Students of **B.Sc. III SEM VI**, that the Project list is attached here. As per discussion on Saturday 24th February 2024. The students are allotted with a project that they have to complete using **Amrita Lab website**. The students are informed to Contact the supervising teacher and get the project done within due time.

Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati.

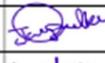
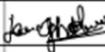
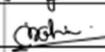
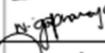
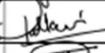
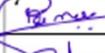
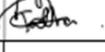
(Session III-2023-24) B.SC III year SEM VI

Project

Department of Zoology

Class: B.Sc. III

Sr.No	Name	Project Topic	Date of submission	Sign	Supervising Teacher
1	Aditya Kishor Pawar	Hot Shot Method of DNA Extraction	2/04/23		Dr. P.S. Mahalle
2	Aarti Nandkishor Mokalekar				Dr. P.S. Mahalle
3	Adarsh Sanjayrao Pande				Dr. P.S. Mahalle
4	Adeeba Anam Ikramuddin .				Dr. P.S. Mahalle
5	Aniket Rupraoji Chawale				Dr. P.S. Mahalle
6	Aniket Sambhaji Meshram				Dr. P.S. Mahalle
7	Anisha Vijay Deshmukh				Dr. P.S. Mahalle
8	Ankush Maroti Jadhao				Dr. P.S. Mahalle
9	Ashwini Dhanraj Tirmare	Western Blotting	2/04/23		Dr. G.S. Pachlore
10	Ashwini Ravindra Wankhade				Dr. G.S. Pachlore
11	Ayan Naim Khan				Dr. G.S. Pachlore
12	Bhushan Yogeshwar Chawale				Dr. G.S. Pachlore
13	Disha Vijay Khobragade				Dr. G.S. Pachlore

14	Hassan Ahmad Rizwanullah Khan			—	Dr.G.S.Pachlore
15	Jayshri Shamraoji Solanke				Dr.G.S.Pachlore
16	Jyotsna Gajanan Laybar				Dr.G.S.Pachlore
17	Leena Ganesh Ghodeswar				Mr.S.N.Bansod
18	Mohini Sunil Makode				Mr.S.N.Bansod
19	Nayana Dadarao Gopnarayan	Polyacrylamide Gel Electrophoresis	4/24/23		Mr.S.N.Bansod
20	Pallavi Vilas Khune				Mr.S.N.Bansod
21	Prajakta Pramod Inzalkar				Mr.S.N.Bansod
22	Prince Arvind Nandagawali				Mr.S.N.Bansod
23	Reva Mahendra Gedam				Mr.S.N.Bansod
24	Rohini Jagdish Bahurupi				Mr.S.N.Bansod
25	Sakshi Shyam Bavankule		Extraction of DNA from Agarose gel		—
26	Sanika Sahadev Lute	8/24/23			Dr.S.P.Tinkhede
27	Sayyed Maaz Misbahuddin .				Dr.S.P.Tinkhede
28	Shraddha Rajkumar Dhage			—	Dr.S.P.Tinkhede
29	Sneha Manohar Satpaise			—	Dr.S.P.Tinkhede
30	Vaishanvi Anil More			—	Dr.S.P.Tinkhede
31	Vaishnavi Rajendra Ghawat				Dr.S.P.Tinkhede
32	Yogini Lileshwar Mate				Dr.S.P.Tinkhede
33	Zuberkha Gaffarkha Pathan				Dr.S.P.Tinkhede
34	Anushri Gajanan Rohankar			—	Dr.S.P.Tinkhede

1. Dr G.S.Pachlore G.S.Pachlore
2. Mr.S.N.Bansod _____
3. Dr.S.P.Tinkhede _____


Head
Dept. of Zoology
 Vinayak Vidnyan Mahavidyalaya
 Nandgaon Kh.

Restriction Digestion

Objective:

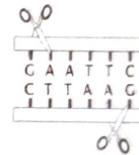
To perform restriction digestion of DNA with EcoRI and BamHI enzymes.

Principle:

Restriction enzymes are Nucleases which can cleave the sugar-phosphate backbone of DNA, found in bacteria. As they cut within the molecule, they are commonly called restriction endonucleases. They specifically cleave the nucleic acids at specific nucleotide sequence called Restriction sites to generate a set of smaller fragments.



Restriction enzymes form part of the restriction-modification system of bacterial cells that provides protection against invasion of the cell by foreign DNA – especially bacteriophage DNA. But the cells own DNA is not cleaved by these Restriction enzymes. This self protection is achieved by the help of the specific DNA methyltransferase enzyme which will methylates the specific DNA sequence for its respective restriction enzymes by transferring methyl groups to adenine or cytosine residues to produce N6-methyladenine or 5-methylcytosine. An interesting feature of restriction endonuclease is that they commonly recognize recognition sequences that are mostly palindromes - they shows the same forward (5' to 3' on the top strand) and backward (5' to 3' on the bottom strand) sequences. In other words, they are nucleotide sequences or complimentary strands that read the same in opposite direction.



Types of restriction and modification (R-M) system:

Type I enzymes :- Type I restriction enzymes exhibit both restriction and DNA modification activities. They require the cofactors such as Mg²⁺ ions, S-adenosylmethionine (SAM) and ATP for their activity. The recognition sequences are quite long with no recognizable features such as symmetry. Type I restriction endo nucleases cleaves DNA at nonspecific sites and that can be 1000 base pair or more from recognition sequence. However, because the methylation reaction is performed by the same enzyme which mediates cleavage, the target DNA may be modified before it is cut. Because of these features, the type I systems are of little value for gene manipulation.

Type II enzymes :- Type II enzymes and their corresponding modification methyltransferases act as separate proteins. They have a number of advantages over type I and III systems. First, restriction and modification are mediated by separate enzymes so it is possible to cleave DNA in the absence of modification. Secondly, the restriction activities do not require cofactors such as ATP or S-adenosylmethionine, making them easier to use. They require only Mg²⁺ ions as cofactors. These enzymes are site-specific as they hydrolyze specific phosphodiester bonds in both DNA strands. Class II restriction endonucleases are generally used as the key material in molecular biology and recombinant DNA techniques, including genome mapping, RFLP analysis, DNA sequencing, and cloning.

Type III enzymes :- Like Class I enzymes, Type III enzymes possess both restriction and modification activities. They recognize specific sequences and cleave 25 -27 base pairs outside of the recognition sequence, in a 3' direction. They require Mg²⁺ ions for their activity.

Type IV enzymes, have similar cofactors and macromolecular structure to those of type II systems, the fact that restriction occurs at a distance from the recognition site limits their usefulness.

Nomenclature:

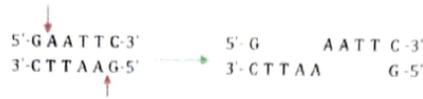
The first three letters of the restriction enzyme refer to the organism from which the restriction enzyme was originally isolated, the fourth letter (if present) refers to the strain, and the Roman numerals serve as indices if the same organism contains several different restriction enzymes. e.g. EcoRI and EcoRV are both from *Escherichia coli*, strain R, I and V are the order in which they were discovered.

Restriction Enzyme Nomenclature	
Enzyme	Enzyme Source
EcoRI	<i>Escherichia coli</i> , strain R, 1 st enzyme
HindIII	<i>Haemophilus influenzae</i> , strain d, 3 rd enzyme
BamHI	<i>Bacillus amyloliquefaciens</i> , strain H, 1 st enzyme
SmaI	<i>Serratia marcescens</i> , 1 st enzyme
HaeIII	<i>Haemophilus aegyptius</i> , 3 rd enzyme

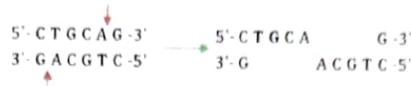
Restriction Enzyme cleavage:

Class II restriction enzymes generate three types of DNA ends, all possessing 5'-phosphate and 3'-hydroxyl groups:

a) Cohesive 5' ends:- For example, ends generated by EcoRI:



b) Cohesive 3' ends:- For example, ends generated by *Pst* I



c) Blunt ends:- For example, ends generated by *Hae* III



Sticky ends (Blunt ends) are produced by cutting the DNA in a staggered manner within the recognition site producing single stranded DNA ends. These ends have identical nucleotide sequence and are sticky because they can bind to complementary tails of other DNA fragments cut by the same Restriction enzyme.

	Restriction Enzyme	Organism	Recognition sequence	Cut Site	Blunt or Sticky end
1	<i>Eco</i> RI	<i>Escherichia coli</i>	5'GAATTC 3'CTAAG	5'---G AATTC---3' 3'---CTTAA G---5'	Sticky
2	<i>Bam</i> HI	<i>Bacillus amyloliquefaciens</i>	5'GGATCC 3'CTAGG	5'---G GATCC---3' 3'---CCTAG G---5'	Sticky
3	<i>Bgl</i> II	<i>Bacillus globigii</i>	5'AGATCT 3'TCTAGA	5'---A GATCT---3' 3'---TCTAG A---5'	Sticky
4	<i>Pvu</i> II	<i>Proteus vulgaris</i>	5' CAGCTG 3' GTCGAC	5'---CAG CTG---3' 3'---GTC GAC---5'	Blunt
5	<i>Hind</i> III	<i>Haemophilus influenzae</i> <i>R₁₇</i>	5'AAGCTT 3'TTCAA	5'---A AAGCTT---3' 3'---TTCAA A---5'	Sticky
6	<i>Sau</i> 3A	<i>Staphylococcus aureus</i>	5'GATC 3'CTAG	5'---GATC---3' 3'---CTAG ---5'	Sticky
7	<i>Acl</i> I	<i>Arthrobacter luteus</i>	5'AGCT 3'TCGA	5'---AG CT---3' 3'---TC GA---5'	Blunt
8	<i>Taq</i> I	<i>Thermus aquaticus</i>	5'TCGA 3'AGCT	5'---T CGA---3' 3'---AGC T---5'	Sticky
9	<i>Hae</i> III	<i>Haemophilus aegyptius</i>	5'GGCC 3'CCGG	5'---GG CC---3' 3'---CC GG---5'	Blunt
10	<i>Nco</i> I	<i>Nocardia oaxidiscus</i> <i>ovatum</i>	5'GGGCGGC 3'CCCGGG	5'---GC GCGGC---3' 3'---CCCGGC CG---5'	Sticky

Isoschizomers and neoschizomers:

Different restriction enzymes, isolated from different organisms can have identical recognition sequences, such enzymes are called isoschizomers. Neoschizomers are isoschizomeric enzymes but it cleaves at different recognition site.

Applications:

Restriction enzymes are powerful tools of molecular genetics used to:

- Map DNA molecules
- Analyze population polymorphisms
- Rearrange DNA molecules
- Prepare molecular probes
- Create mutants

Factors affecting Restriction Enzyme Activity:

Temperature: Most digestions are carried out at 37°C. However, there are a few exceptions e.g., digestion with Sma I is carried out at lower temperatures (~25°C), while with Taq I at higher temperature i.e., 65°C.

Buffer Systems: Tris-HCl is the most commonly used buffering agent in incubation mixtures, which is temperature dependent. Most restriction enzymes are active in the pH range 7.0-8.0.

Ionic Conditions: Mg²⁺ is an absolute requirement for all restriction endonucleases, but the requirement of other ions (Na⁺/K⁺) varies with different enzymes.

Methylation of DNA: Methylation of specific adenine or cytidine residues within the recognition sequence of the restriction enzyme affects the digestion of DNA.

Star Activity:-

It is an alteration of the specificity of restriction enzyme mediated cleavage of DNA that can occur under some non standard conditions that differ from the optimum for the enzyme. This alteration leads to the cleavage at non specific sites.

Nonstandard conditions include:

1. High pH (>8.0).
2. Glycerol concentrations >5% (important, because enzymes are usually delivered as concentrated stock in 50% glycerol).
3. High concentration of enzyme (>100 U/μg of DNA).
4. Prolonged incubation time with enzyme.
5. Presence of organic solvents in the reaction (e.g., phenol, chloroform, ethano, DMSO).
6. Incorrect cofactor (i.e., Mn²⁺, Hg²⁺ or Co²⁺ instead of Mg²⁺).

To avoid star activity, always use the optimal buffer system and enzyme amount recommended. Make sure that the DNA preparation is free of organic solvents and contaminating salts.

Note:

Please check "Procedure tab" if you have issues loading the simulator.

Restriction Digestion

Flash EOL

Animation link: https://vlab.amrita.edu/repo/BIOTECH/MOL/Restriction_digestion/index.swf

Simulation link: <https://vlab.amrita.edu/repo/BIOTECH/MIC/Restriction%20Enzyme/RestrictionEnzyme.swf>

Materials Required

- Microcentrifuge tubes
- Vial stand
- 10 μ l pipette
- Pipette tips
- Beaker
- Table top mini centrifuge
- Incubator
- Reagents

Procedure

1. Transfer the following solutions in a micro centrifuge tube.

Item	Amount
Deionized water	5 μ L
10X Reaction Buffer	1 μ L
Plasmid DNA	3 μ L
EcoRI Enzyme	0.5 μ L
BamHI Enzyme	0.5 μ L
Total	10 μL

2. Incubate the mixture at 37 °C for 1 h to overnight. Keep the tubes in -4° C freezer or in -20° C freezer, after the incubation.

Precaution

- Make sure that the restriction enzyme does not exceed more than 10% of the total reaction volume, Otherwise the glycerol and the EDTA in the enzyme storage buffer may inhibit digestion process.

Differences Encountered in Real Laboratory

- After performing the experiment, confirm the Digestion of DNA by running a small amount of it in agarose gel with an undigested standard DNA.
- Some restriction enzymes require BSA. In such cases make sure that, it is added to the reaction mixture. Restriction enzymes that do not require BSA for optimal activity are not adversely affected if BSA is present in the reaction.
- Before performing the experiment, check whether the restriction enzymes have star activity or not.

Help:

Unfortunately, this Virtual Lab requires Adobe Flash player. Please see additional information if this does not work on your computer

- For Google Chrome - <https://support.google.com/chrome/answer/6258784?co=GENIE.Platform%3DDesktop&hl=en>
- For Microsoft Edge - <https://support.microsoft.com/en-in/help/4532571/microsoft-edge-turn-on-flash>
- For Mozilla Firefox - <https://support.mozilla.org/en-US/kb/install-flash-plugin-view-videos-animations-games>

On GNU/Linux machines, please see appropriate online help. For example,

- on Ubuntu - <https://help.ubuntu.com/stable/ubuntu-help/nel-install-flash.html.en>
- on Fedora - <https://docs.fedoraproject.org/en-US/quick-docs/using-adobe-flash/>



STUDENTS SEMINAR



Pravin Khadke Memorial Trust, Amravati's
VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KH. DIST-AMRAVATI

Department of
ZOOLOGY

Notice:

This is to inform to the Students of B.Sc. III SEM VI, that the regular seminar List is attached here. The date of commencement of seminar will be from 26th January 2024 onwards. The students are informed to Contact the supervising teacher.

Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati.

(Session II-2023-24) B.SC III year SEM VI
Seminar
Department of Zoology

Class: B.Sc. III

Sr.No	Name	Seminar Topic	Date of Seminar	Sign	Supervising Teacher
1	Aditya Kishor Pawar	Avery Macload and Macarty Experiment	29/01/24	<i>AP</i>	Dr. P.S.Mahal
2	Aarti Nandkishor Mokalekar	Immunological Techniques		<i>Mokalekar</i>	Dr. P.S.Mahal
3	Adarsh Sanjayrao Pande	Griffiths Experiment	27/01/24	<i>Adarsh</i>	Dr. P.S.Mahal
4	Adeeba Anam Ikramuddin .	Structure of DNA		<i>Adeeba</i>	Dr. P.S.Mahal
5	Aniket Rupraoji Chawale	Hersheys And Chase experiment		<i>Aniket</i>	Dr. P.S.Mahal
6	Aniket Sambhaji Meshram	Restriction endonuclease		<i>Aniket</i>	Dr. P.S.Mahal
7	Anisha Vijay Deshmukh	Type of DNA		<i>Anisha</i>	Dr. P.S.Mahal
8	Ankush Maroti Jadhao	Non Genetic RNA		<i>Ankush</i>	Dr. P.S.Mahal
9	Ashwini Dhanraj Tirmare	DNA finger printing		<i>Ashwini</i>	Dr.G.S.Pachle
10	Ashwini Ravindra Wankhade	Western Blotting		<i>Ashwini</i>	Dr.G.S.Pachle
11	Ayan Naim Khan	Mammalian Mt DNA		<i>Ayan</i>	Dr.G.S.Pachle
12	Bhushan Yogeshwar Chawale	DNA replication	30/01	<i>Bhushan</i>	Dr.G.S.Pachle
13	Disha Vijay Khobragade	Plasmid pBR 322		<i>Disha</i>	Dr.G.S.Pachle
14	Hassan Ahmad Rizwanullah Khan	DNA repair		<i>Hassan</i>	Dr.G.S.Pachle
15	Jayshri Shamraoji Solanke	Complement System		<i>Jayshri</i>	Dr.G.S.Pachle
16	Jyotsna Gajanan Laybar	Structure of Antibody		<i>Jyotsna</i>	Dr.G.S.Pachle

17	Leena Ganesh Ghodeswar	Messelsons and stahl	23 Feb	Leena	Mr.S.N.Bansod
18	Mohini Sunil Makode	Plasmids		Mohini	Mr.S.N.Bansod
19	Nayana Dadarso Gopnarayan	Polyploidy		Nayana	Mr.S.N.Bansod
20	Pallavi Vilas Khune	Aneuploidy		Pallavi	Mr.S.N.Bansod
21	Prajakta Pramod Inzalkar	Restriction enzymes		Prajakta	Mr.S.N.Bansod
22	Prince Arvind Nandagawali	Recombinant DNA technology		Prince	Mr.S.N.Bansod
23	Reva Mahendra Gedam	Genetic disorder		Reva	Mr.S.N.Bansod
24	Rohini Jagdish Bahurupi	Organs of Lymphatic system		Rohini	Mr.S.N.Bansod
25	Sakshi Shyam Bavankule	Jumping Gene	24 Feb		Dr.S.P.Tinkhede
26	Samika Sahadev Lute	Ti Plasmid		Samika	Dr.S.P.Tinkhede
27	Sayyed Maaz Misbahuddin	Genetic Code		Sayyed	Dr.S.P.Tinkhede
28	Shraddha Rajkumar Dhage	Protein Synthesis		Shraddha	Dr.S.P.Tinkhede
29	Sneha Manohar Satpaise	Processing of mRNA			Dr.S.P.Tinkhede
30	Vaishnavi Anil More	Natural Mutation		Vaishnavi	Dr.S.P.Tinkhede
31	Vaishnavi Rajendra Ghawat	PCR		Vaishnavi	Dr.S.P.Tinkhede
32	Yogini Lileshwar Mate	Sickel Cell Anemia			Dr.S.P.Tinkhede
33	Zuberka Gaffarkha Pathan	Features of Genetic code			Dr.S.P.Tinkhede
34	Anushri Gajanan Rohankar	Types of Polyploidy			Dr.S.P.Tinkhede

1. Dr. G.S.Pachlore

2. Mr. S.N.Bansod

3. Dr. S.P.Tinkhede

Head
Dept. of Zoology
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.

**Vinayak Vidnyan
Mahavidyalaya Nandgaon
(kh)**



**Department of Zoology
Topic :- Polyploidy**

presented by :- Nayana D. Gopnarayan

■ **Content -**

- Introduction
- Types of polyploidy
- Origin of autopolyploids
- Characteristics of autopolyploids
- Allopolyploidy
- Significance of polyploidy
- Reference

- **Introduction**

Organism with more than two sets of chromosomes are called polyploids. These organism posses one or more haploid sets of chromoses in addition to original diploid configuration. Triploid($3n$) contain 3 sets of chromosome, teraploid ($4n$) 4 sets, pentaploid ($5n$) 5 sets, and so on. This phenomenon of change in number of sets of chromosome is known as polyploidy.

- **Types of polyploidy**

Depending on whether polyploids are produce from chromosome sets of single species or from two different species, poluploidy is classified into two types.

1. Autopolyploidy
2. Allopolyploidy

Types of polyploids

Autopolyploidy

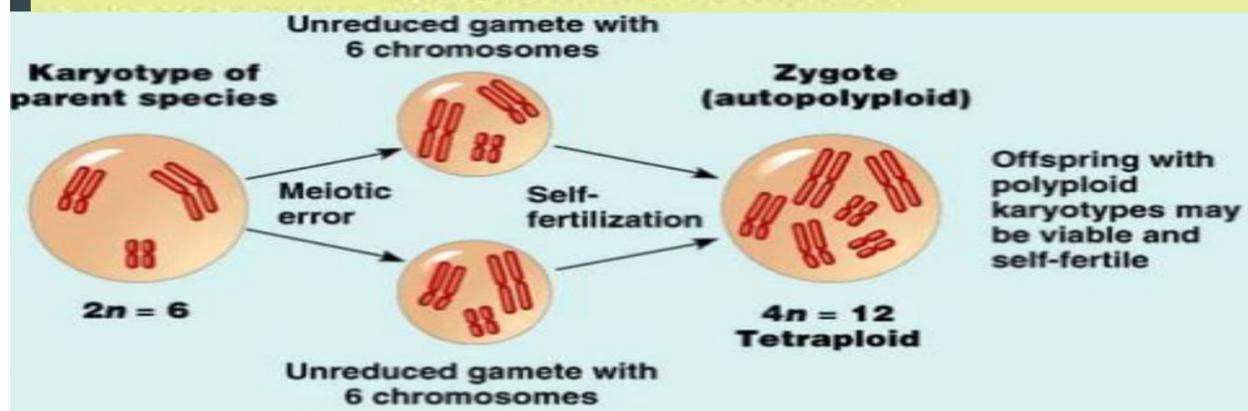
- (**genome doubling**) doubling of the same chromosome set .
- Autopolyploids are derived from within a single species

Allopolyploidy

- is the product of inter-specific hybridization
- allopolyploids arise via hybridization between two species

Autopolyploidy-

➤ This occur when an individual has more than two sets of chromosomes ($4n$), all derived from an original species ($2n$).



● Origin of autopolyploids

The autopolyploids may arise in any of the following ways :-

- I. by fertilization of an egg with two sperms (autotriploid).
- II. by somatic doubling of the chromosomes in a diploid zygote due to abnormal mitosis (autotetraploid).
- III. by union of a haploid gamete with the diploid gamete (autotriploid).
- IV. by doubling of chromosome in diploid zygote due to abnormal mitosis (autotetraploid).
- V. by fertilization between two diploid gametes (autotetraploid).

● Characteristics of autopolyploids

Autopolyploids show following characteristics :-

1. They are larger than the diploids due to increased in cell size.
2. Their leaves, flowers, fruits and seeds all are large.
3. Due to increase in cell size, water content is increased causing reduced osmotic pressure and loss of resistance against frost.
4. These show vigorous growth. Growth rate is slow due to slow rate of cell division.



Raphanus brassica



Allohexaploid wheat

- Significance of polyploidy

- Enlargement and Increased Vigor
- Creation of Sterile Triploids
- Restoring Fertility in Hybrids
- Overcoming Barriers in Hybridization
- Enhancing Pest Resistance and Stress Tolerance



- Reference

1. www.nature.com
2. www.sciencedirect.com
3. Wikipedia
4. www.slideshare.com
5. A textbook of zoology sem6



COLLEGE UNIT TEST





विनायक विज्ञान महाविद्यालय
ना. नांदगाव खंडेश्वर, जि. अमरावती

Notice

Date: 26/10/2023

Unit Test Examination Winter - 2023

All students are hereby informed that Unit Test for academic year 2023-24 will be held during 1st to 4th November, 2023. The detailed time table for the same is as given below. Attendance of all students is compulsory.

Time Table

Date	Class	Subjects	Syllabus	Time	Room No.
01/11/2023 Wednesday	B.Sc. I	English	Chapter & Poem 1,2,4	12.30 pm To 01.30 pm	R.No. 6&7
		Marathi	Chapter & Poem	02.00 pm To 03.00 pm	R.No. 6&7
02/11/2023 Thursday	B.Sc. I	Chemistry / Computer science	Chem. Unit-1,3,4 Com. Sc.-1,2,5	12.30 pm To 01.30 pm	R.No. 6 Com. Lab
	B.Sc. II	Zoology / Electronics/ Mathematics V(ASB)	Zoo. 1,2,6 Ele. Math-1,2	12.30 pm To 01.30 pm	Zoo Lab. Phy Lab.
		Mathematics VI (PBD)	Math -1,2,3	02.00 pm To 03.00 pm	Phy Lab.
B.Sc. III	Physics / Botany	Phy-1,3,6 Bot-1,2,5	2.00 pm To 3.00 pm	Phy Lab. Bot. Lab	
03/11/2023 Friday	B.Sc. I	Zoology / Electronics / Mathematics I (ASB)	Zoo.1,2,3 Ele, Math 1,2	12.30 pm To 01.30 pm	Zoo. Lab Ele. Lab.
	B.Sc. II	Physics / Botany	Phy-2,3,4. Bot-2, 4,6	12.30 pm To 01.30 pm	Phy. Lab Bot. Lab.
	B.Sc. III	Chemistry / Computer science	Chem. Unit-1,2,3 Com. Sc.-1,4,5	2.00 pm To 3.00 pm	Room No 6 com. Lab.
04/11/2023 Saturday	B.Sc. I	Physics / Botany	Phy-1,4,5 Bot-1,3,5	12.30 pm To 01.30 pm	Phy Lab Bot. Lab.
		Mathematics II (PBD)	Math -1,2,3	02.00 pm To 03.00 pm	phy lab.
	B.Sc. II	Chemistry / Computer science	Chem. Unit-1,3,4 Com. Sc.-1,2,3	12.30 pm To 01.30 pm	R.No. 6. computer lab
	B.Sc. III	Zoology / Electronics / Mathematics IX (ASB)	Zoo. Unit: 1,3,6 Ele, Math-1,2,3	12.30 pm To 01.30 pm	Zoo. Lab Ele. Lab.
		Mathematics X (PBD)	Math -1,2,3	02.00 pm To 03.00 pm	Phy. Lab

Coordinator
College Examination

Dr. Anant S. Wadkar
Assistant Professor and Head
Department of Physics
Vinayak Vidnyan Mahavidyalaya
Nandgaon (Kh.), Dist. Amravati

Dr. Alka A. Bhise

Principal

Vinayak Vidnyan Mahavidyalaya
Nandgaon Khandeshwar, Dist. Amravati



Pravin Khodke Memorial Trust, Amravati's
VINAYAK VIDNYAN MAHAVIDYALAYA

Nandgaon Khandeshwar, Dist. Amravati

NAAC Accredited B++ Grade with CGPA 2.83

Notice

Date: 30/03/2024

Unit Test Examination Summer - 2024

All students are hereby informed that Unit Test for academic year 2022-23 will be held during 19th to 23rd April, 2024. The detailed time table for the same is as given below. Attendance of all students is compulsory.

Time Table

Date	Class	Subjects	Syllabus	Time
19/04/2024 Friday	B.Sc. I	English	Chapter & Poem 1,2,4	12.30 pm To 01.30 pm
		Marathi	Chapter & Poem	02.00 pm To 03.00 pm
	B.Sc. II	Mathematics (PBD)	Two Units	12.30 pm To 01.30 pm
	B.Sc. III	Mathematics (PBD)	Two Units	12.30 pm To 01.30 pm
20/04/2024 Saturday	B.Sc. I	Chemistry / Computer Science	Che-1,2,3 Com. Sc.- 1,2,3	12.30 pm To 01.30 pm
	B.Sc. II	Zoology / Electronics / Mathematics V (ASB)	Zoo. 1,2,6 Math- Two Units	12.30 pm To 01.30 pm
	B.Sc. III	Physics / Botany	Phy-2,3,5 Bot-2,3,4	12.30 pm To 01.30 pm
22/04/2024 Monday	B.Sc. I	Zoology / Electronics / Mathematics I (ASB)	Zoo.1,2,3 Math- Two Units	12.30 pm To 01.30 pm
	B.Sc. II	Physics / Botany	Phy-1,3,5 Bot-1,2,3	12.30 pm To 01.30 pm
	B.Sc. III	Chemistry / Computer Science	Che-1,3, 4 Com. Sc.-1,4,5	12.30 pm To 01.30 pm
23/04/2024 Tuesday	B.Sc. I	Physics / Botany	Phy-1,3,5 Bot-1,2,3	12.30 pm To 01.30 pm
		Mathematics II (PBD)	Two Units	02.00 pm To 03.00 pm
	B.Sc. II	Chemistry / Computer Science	Che-1,3,6 Com. Sc.-1,4	12.30 pm To 01.30 pm
	B.Sc. III	Zoology / Electronics / Mathematics IX (ASB)	Zoo.1,2,4 Math- Two Units	12.30 pm To 01.30 pm

Coordinator
Examination Committee

PRINCIPAL

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON (KH.)
DEPARTMENT OF PHYSICS

B.Sc.- I Sem.-I
Time: 1 Hr.

UNIT TEST

Date: 04 Nov. 2023
Max. Marks : 30

Que.1. A). Fill in the blanks. 2 Marks

- (i) The Moment of Inertia of solid sphere about an axis passing through its center is _____
- (ii) Time period of Simple Pendulum is independent of _____
- (iii) The equation of parallel axes theorem is _____
- (iv) When a satellite revolves in a circular orbit around the earth then _____ force acts upon a satellite.

B. Multiple choice questions. 2 Marks

1. Moment of inertia of a body is considered only in the case of
 a) rectilinear motion b) rotational motion
 c) rectilinear motion d) translation motion
2. A man swinging on a swing in a sitting position, stands of suddenly, the time period of swing will
 a) increase
 b) decrease
 c) remains same
 d) becomes infinite
3. Weightlessness experienced while orbiting the earth in space ship is the result of _____
 a) inertia b) acceleration
 c) zero gravity d) free fall towards Earth
4. When the external torque acting on a system is zero then there will be conservation of
 a) total energy b) angular momentum

C) Answer in one sentence 2 Marks

1. What is inertial frame of reference?
 2. What is semiconductor?

Que.2. Attempt any three of the following (3 marks each) 9 Marks

1. State Kepler's laws of planetary motion
 2. Discuss variation of acceleration due to gravity g with altitudes.
 3. Explain Galilean transformation.
 4. Derive the differential equation of S.H.M. with its solution.

Que.3. Attempt any three of the following (5 marks each) 15 Marks

1. What is Fly-Wheel? Explain with suitable diagram.
 2. Derive an expression for the moment of inertia of a solid sphere about an axis passing through the center.
 3. What is and artificial satellite derive an expression for orbital speed of satellite.
 4. Derive an expression for time period of simple pendulum.

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Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.
DEPARTMENT OF PHYSICS

B. Sc. III Sem. - V
Time: - 1 Hr.

Date: - 02 November 2023

Unit Test
Marks: - 30

Que.1. A). Fill in the blanks.

2 Marks

1. The relation ___ is called as de Broglie's relation.
2. The radiation consists of bundles of packets of energy called as ___
3. Stern Gerlach experiment proves.....
4. For a transistor the number of h parameter is...

B. Multiple choice questions.

2 Marks

1. The law which can successfully explain the experimental distribution of energy density over the entire range of wavelengths is
a) Wein's law b) Rayleigh Jeans law c) Rayleigh- Jeans law d) Wein's law
2. The problem of ultraviolet catastrophe arose while explaining
a) Wein's law b) Rayleigh Jeans law c) Rayleigh- Jeans law d) Wein's law
3. Colpitt's oscillator uses
a) Tapped coil b) Tapped capacitance c) Inductive feedback d) RC feedback
4. Feature of Vector Atom Model is
a) Space Quantization b) Wave nature c) Discrete Energy levels d) None of the above

C) Answer in one sentence

2 Marks

1. What is Photoelectric Effect?
2. Write down any two properties of X-rays.

Que.2 Attempt any three of the following (3 marks each)

9 Marks

1. Explain Vector atom model.
2. Explain LS coupling and JJ couplings.
3. Explain the Thought Experiment (Gamma Ray Microscope).
4. Write down the Experimental determination of h-parameters.

Que.3 Attempt any three of the following (5 marks each)

15 Marks

1. Explain Stern Gerlach experiment
2. Explain Compton effect with suitable diagram
3. Explain RC Coupled amplifier.
4. Give the experimental verification of de'Broglie hypothesis.

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Tq. Nandgaon Khandeshwar, Dist. Amravati

B. Sc. Part II Semester III (2023-24)

Subject: Physics

Unit Test Examination Winter 2023

Time: 1 Hr

Date: 03 November, 2023

Marks: 30

Q.1. A. Multiple choice questions. 3 Marks

1. Radiations travel with the speed of _____
a: light b: sound c: ultra sound d: None of these
2. For Silicon the barrier potential is _____ volt
a: 0.7 b: 0.3 c: 1.1 d: 0.1
3. Fermi function is also known as _____
a: Fermi Energy b: Fermi Temperature c: Occupation Index d: None of these

Q.1. B. Fill in the blank. 3 Marks

1. For electrons _____ statistics is applicable.
2. For Silicon the barrier potential is _____ volt
3. For photons _____ statistics is applicable.

Q.1. C. Answer in short (1 mark each) 3 Marks

1. What are Fermions? 2. Define Mean Free Path.
3. What is PN junction diode?

Q.2. Attempt the following (any 3) (3 marks each) 9 Marks

- a) Explain Bose-Einstein statistics.
- b) Explain Planck's Quantum hypothesis.
- c) Derive MB energy distribution law
- d) Differentiate between Avalanche breakdown and Zener breakdown.

Q.3. Attempt the following (any 3) (4 marks each) 12 Marks

- a) Write down the condition for most probable distribution in B-E Statistics.
- b) Derive an expression for Plank's radiation law in terms of frequency of radiation.
- c) Explain the construction and working of LED.
- d) Explain Macrostate and Microstate .

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- BSC I S-1			Subject: Physics		
Date: 04 Nov. 2023			Invigilators Sign: Dr. A. S. Wadatkar		
Roll	Name	Mob No	Subject Group	Attendance	Rem
1.	Abhishek Jagdish Pawar	983479465	CPS,ENG,MAR,MTH,PHY	AB	
2.	Adesh Sudesh Bhojar	762075674	CPS,ENG,ETC,MAR,PHY	AB	
3.	Akansha Vitthal Sakharkar	963765081	CHE,ENG,MAR,MTH,PHY	AB	
4.	Amita Amol Athawale	830819883	CPS,ENG,ETC,MAR,PHY	AB	
5.	Anil Ambadas Sontakke	880699382	CPS,ENG,MAR,MTH,PHY	AB	
6.	Anisha Shankar Kokate	983440195	CPS,ENG,MAR,MTH,PHY	AB	
7.	Atharva Avinash Kanse	876720320	CPS,ENG,MAR,MTH,PHY	AB	
8.	Avinash Madhukarrao Dhurte	876724847	CPS,ENG,MAR,MTH,PHY	AB	
9.	Ayush Uttamrao Bramhanwade	842116065	CPS,ENG,ETC,MAR,PHY	AB	
10.	Bhavesh Rangrao Shirbhate	902178433	CPS,ENG,MAR,MTH,PHY	AB	
11.	Chirayu Pradip Kukade	982368817	CPS,ENG,ETC,MAR,PHY	AB	
12.	Devanshi Harishchandra Joge	986039366	CPS,ENG,ETC,MAR,PHY	AB	
13.	Dhanshri Rajendra Tankar	770945649	CPS,ENG,ETC,MAR,PHY	AB	
14.	Dimpal Prakash Bokade	982328468	CPS,ENG,MAR,MTH,PHY	AB	
15.	Dipraj Ramdas Zopate	749968757	CPS,ENG,ETC,MAR,PHY	AB	
16.	Gaurav Mangesh Gulhane	876782337	CPS,ENG,MAR,MTH,PHY	AB	
17.	Gayatri Yogendra Dhege	969962756	CPS,ENG,MAR,MTH,PHY	AB	
18.	Harshal Arvindrao Thete	937318428	CPS,ENG,MAR,MTH,PHY	AB	
19.	Harshraj Chandrashekhar	766618754	CPS,ENG,MAR,MTH,PHY	AB	
20.	Hemant Yogiraj Thakare	818086150	CPS,ENG,MAR,MTH,PHY	AB	
21.	Javed Kha Nasib Kha Pathan	876785136	CPS,ENG,ETC,MAR,PHY	AB	
22.	Kajal Nandu Wanjari	846887591	CPS,ENG,MAR,MTH,PHY	AB	
23.	Kartik Rajendra Patil	749917037	CPS,ENG,ETC,MAR,PHY	AB	
24.	Keval Anil Kanse	957939615	CPS,ENG,MAR,MTH,PHY	AB	
25.	Laukik Lalchand Ingole	826198332	CPS,ENG,MAR,MTH,PHY	AB	
26.	Mayuri Pramod Uike	735072996	CHE,ENG,MAR,MTH,PHY	AB	
27.	Nandini Avadhut Chavhan	942254386	CHE,ENG,MAR,MTH,PHY	AB	
28.	Nayan Hemant Sonone	735015508	CPS,ENG,ETC,MAR,PHY	AB	
29.	Payal Nagorao Urkade	721956338	CHE,ENG,MAR,MTH,PHY	AB	
30.	Prachi Pramod Lothe	782208751	CPS,ENG,ETC,MAR,PHY	AB	
31.	Pratul Dnyaneshwar Ramteke	951180959	CPS,ENG,ETC,MAR,PHY	AB	
32.	Pratul Subhash Bandabuche	932200387	CPS,ENG,ETC,MAR,PHY	AB	
33.	Prajakta Pravin Meshram	801095718	CPS,ENG,MAR,MTH,PHY	AB	
34.	Prajwal Rameshwar Thote	801023632	CPS,ENG,ETC,MAR,PHY	AB	
35.	Pranali Narendra Sonone	982328468	CPS,ENG,MAR,MTH,PHY	AB	
36.	Pranay Pradip Meshram	876719653	CPS,ENG,ETC,MAR,PHY	AB	
37.	Preshit Kishor Sonone	937036828	CPS,ENG,ETC,MAR,PHY	AB	
38.	Rudresh Gajanan Meshram	766649538	CHE,ENG,MAR,MTH,PHY	AB	
39.	Rutvik Kailas Bansod	932266402	CPS,ENG,ETC,MAR,PHY	AB	
40.	Samir Rajkumar Dahatonde	888865784	CPS,ENG,MAR,MTH,PHY	AB	
41.	Sanyam Ananta Jambhale	965759234	CPS,ENG,MAR,MTH,PHY	AB	
42.	Shreyash Dipakrao Dokane	914530344	CPS,ENG,ETC,MAR,PHY	AD	
43.	Shubhangi Ganesh Gaoner	808752312	CPS,ENG,ETC,MAR,PHY	AD	
44.	Tanuja Ravindra Laybar	721807257	CPS,ENG,MAR,MTH,PHY	AD	
45.	Uddhav Vijay Patil	935937758	CPS,ENG,ETC,MAR,PHY	AD	
46.	Yash Gautam Tembhumne	801005898	CPS,ENG,ETC,MAR,PHY	AD	
47.	Yash Vinayak Shelokar	969987564	CPS,ENG,ETC,MAR,PHY	AD	
48.					
49.					
50.	Total No. Students on Roll	47	Invigilator's Sign	Exam Coordinator	
51.	No. of Students Present				
52.	No. of Students Absent				

Dr. Anant S. Wadatkar
 Assistant Professor and Head
 Department of Physics
 Vinayak Vidnyan Mahavidyalaya
 Nandgaon (Kh.), Dist. Amravati

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC II			Subject: Physics		
Date: 03 NOV. 2023			Name of Invigilator: Dr. P. B. Kharad		
Roll No.	Name	Mob No	Subject Group	Attendance	Remark
1.	Ahmar Waqas Mohd Rafique	7785999125	CHE,MTH,PHY	A	
2.	Divya Nilesh Gawande	9960333907	CHE,MTH,PHY	A	
3.	Divya Santosh Raut	9511280459	CHE,MTH,PHY	A	
4.	Gitanjali Gajanan Gudadhe	9011027765	CHE,MTH,PHY	A	
5.	Om Dattatray Puri	9370169458	CHE,MTH,PHY	A	
6.	Sahil Dipak Gedam	9322569423	CHE,MTH,PHY	A	
7.	Saurav Amardeep Meshram	9322346258	CHE,MTH,PHY	A	
8.	Shantanu Pramod Thakare	8010237958	CHE,MTH,PHY	A	
9.	Shraddha Santosh Raut	9834735353	CHE,MTH,PHY	A	
10.	Sujal Bharat Bhagat	8766036599	CHE,MTH,PHY	A	
11.	Suyog Vishnu Gadling	7083537021	CHE,MTH,PHY	A	
12.	Vanah Chandrashekar Dandge	9322712514	CHE,MTH,PHY	A	
13.	Vedant Vinodrao Gayakwad	9657707953	CHE,MTH,PHY	A	
14.	Abhijit Pradip Chore	9322269214	CPS,ETC,PHY	A	
15.	Arpita Shankar Waghmare	9322543165	CPS,ETC,PHY	A	
16.	Dhiraj Madhukarrao Kadu	9420590356	CPS,ETC,PHY	A	
17.	Gayatri Ajay Sokare	7350322205	CPS,ETC,PHY	A	
18.	Pallavi Purushottam Mehare	9322543165	CPS,ETC,PHY	A	
19.	Pankaj Gajanan Marotkar	7620414003	CPS,ETC,PHY	A	
20.	Pratik Raju Khadse	7822922763	CPS,ETC,PHY	A	
21.	Pratik Raju Vanjari	8010150025	CPS,ETC,PHY	A	
22.	Roshan Arun Bandahuche	9834965205	CPS,ETC,PHY	A	
23.	Sanket Anil More	9356455892	CPS,ETC,PHY	A	
24.	Satish Dnyaneshwar Thakare	7620188736	CPS,ETC,PHY	A	
25.	Ajay Vijay Bisane	9022146595	CPS,MTH,PHY	A	
26.	Damini Ravindra Gatule	7775008471	CPS,MTH,PHY	A	
27.	Gaurav Prakash Ingole	8010197336	CPS,MTH,PHY	A	
28.	Gauri Ajay Tayade	9322959992	CPS,MTH,PHY	A	
29.	Gayatri Anil Wagh	9021476103	CPS,MTH,PHY	A	
30.	Jayesh Narendra Ghawat	8010311288	CPS,MTH,PHY	A	
31.	Karan Sunil Bramhanwade	9175481116	CPS,MTH,PHY	A	
32.	Kaustubh Gajanan Deshmukh	7821803731	CPS,MTH,PHY	A	
33.	Likhit Ashokarao Take	9356816505	CPS,MTH,PHY	A	
34.	Nivedita Diliprao Deshmukh	9370981557	CPS,MTH,PHY	A	
35.	Parthraj Lalitrao Raut	9307641745	CPS,MTH,PHY	A	
36.	Prachi Pramodrao Gawande	782198095	CPS,MTH,PHY	A	
37.	Pranali Buddhadas Agham	9284012704	CPS,MTH,PHY	A	
38.	Pratik Harshchandra Rathod	9322770889	CPS,MTH,PHY	A	
39.	Priya Anil Shambharkar	7666714077	CPS,MTH,PHY	A	
40.	Priya Dashrath Hiwrale	8799902805	CPS,MTH,PHY	A	
41.	Sakshi Naresh Chawate	8605405596	CPS,MTH,PHY	A	
42.	Sakshi Rajendra Banarase	9156942048	CPS,MTH,PHY	A	
43.	Samiksha Ramdas Jambhole	8010639341	CPS,MTH,PHY	A	
44.	Samiksha Vijay Kanse	9322312869	CPS,MTH,PHY	A	
45.	Sanika Rameshwar Wankhade	7499240325	CPS,MTH,PHY	A	
46.	Sanket Dnyaneshwar Payghan	9021837760	CPS,MTH,PHY	A	
47.	Sarthak Raju Veer	9529135816	CPS,MTH,PHY	A	
48.	Shubham Arun Veer	9527142215	CPS,MTH,PHY	A	
49.	Suhani Vijay Nagrale	9834840583	CPS,MTH,PHY	A	
50.	Tejashri Ashok Jewade	7620002474	CPS,MTH,PHY	A	
51.	Trupti Subhash Kakade	8055107690	CPS,MTH,PHY	A	
52.	Vaishali Gajanan Gudadhe	9011027765	CPS,MTH,PHY	A	
53.	Vaishnavi Rajesh Bhosale	9322141181	CPS,MTH,PHY	A	
54.	Zeehan Ali Khan Noor Khan	9168147858	CPS,MTH,PHY	A	
Total No. Students on Roll		54	Invigilators Sign	Exam Coordinator	
No. of Students Present		20/54			
No. of Students Absent					

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC III Sem : V			Subject: Physics		
Date: 02 Nov. 2023		Name of Invigilator: Mr. A.V. Ambhore			
SrNo	Name	Mob No	Subject Group	Attendance	Remark
1.	Chetan Ganeshrao Vaidya	8806680775	CHE,MTH,PHY	<i>[Signature]</i>	
2.	Komal Rajesh Narode	8767123060	CHE,MTH,PHY	<i>[Signature]</i>	
3.	Pratik Rajendra Shendre	9021356371	CHE,MTH,PHY	AB	
4.	Sakshi Hemantrao Sonone	7350958117	CHE,MTH,PHY	<i>[Signature]</i>	
5.	Sameer Damodhar Dhokane	9657435955	CHE,MTH,PHY	<i>[Signature]</i>	
6.	Shyam Niranjn Kanse	7709617712	CHE,MTH,PHY	<i>[Signature]</i>	
7.	Vaishnavi Ratnakar Belsare	8668843628	CHE,MTH,PHY	<i>[Signature]</i>	
8.	Aachal Rajesh Tobre	7498743312	CPS,ETC,PHY	AB	
9.	Nikhil Rajendra Dabre	8308405012	CPS,ETC,PHY	AB	
10.	Prathmesh Dadaraji Hambarde	9158185569	CPS,ETC,PHY	<i>[Signature]</i>	
11.	Pratik Dattatray Khandar	8080394880	CPS,ETC,PHY	AB	
12.	Yash Vinod Ravekar	8080569997	CPS,ETC,PHY	<i>[Signature]</i>	
13.	Ajinkya Sureshrao Daroi	9307120056	CPS,MTH,PHY	<i>[Signature]</i>	
14.	Pratik Jayvantrao Gadekar	9370270670	CPS,MTH,PHY	AB	
15.	Prerna Sanjay Deshmukh	8999950130	CPS,MTH,PHY	<i>[Signature]</i>	
16.	Shantanu Avinash Solanke	9370910662	CPS,MTH,PHY	S.A.Solanke	
17.	Shruti Suresh Modi	8637752589	CPS,MTH,PHY	AB	
18.	Vijay Niranjn Gedam	9322146260	CPS,MTH,PHY	V.N.Gedam	
Total No. Students on Roll		18	Invigilators Sign	Exam Coordinator	
No. of Students Present			<i>[Signature]</i>	Dr. Anant S. Wadkar Assistant Professor and Head Department of Physics Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh.), Dist.Amravati	
No. of Students Absent			2/11/23		

Vinayak Vidnyan Mahavidyalaya, Nandgaon (Kh), Dist. Amravati.

Unit Test: S-2024

B.Sc. I; Semester – II

Subject – Zoology (CBCS)

Unit – I, II & III

Date: 22/04/2024

Time: 1:00 hrs.

Max. Marks: 30

05 Marks.

Q. 1. A) Multiple choice question

- a) The animal that possesses notochord throughout life is -----
1) Protochordata 2) Cephalochordata 3) Chordata 4) none of the above
- b)fin is non-paired in *Scoliodon*.n
1) Dorsal Fin 2) Pelvic Fin 3) Pectoral Fin 4) None of Above
- c) Vocal sacs are present in -----
1) Male Frog 2) Female Frog 3) Both 4) None of the Above
- d) Pouched mammals are called as -----
1) Marsupian 2) Antelars 3) Ornithodelphia 4) Eutheria
- e) Snake venom are used for the treatment of -----
1) Epilepsy 2) Arthritis 3) Neuralgia 4) All of the above

05 Marks.

B) Answer in one sentence

- f) What is Migration?
g) What is longitudinal migration?
h) Define Parental care.
i) What is Snake venom?
j) How many chambers present in heart of *Scoliodon*?

03 Marks

Q. 2. Describe the following

- k) Placoid scales of *Scoliodon*

OR

- l) What are aquatic adaptations?

07 Marks

Q. 3. Describe the following

- m) General characters of *Amplioxus*

OR

- n) Describe snake venom and antivenom

03 Marks

Q. 4. Describe the following

- o) Male Urinogenital system of *Rana tigrina* (Only Diagram)

OR

- p) Give the function of air sacs in Pigeon

Q.5. Describe the following

- q) Describe in details migration in birds

OR

- r) Alimentary canal of *Scoliodon*

07 Marks

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar

UNIT TEST SUMMER 2024

BSc – II Sem –IV (CBCS)

Subject – Zoology

Date – 20/04/2024 Max Marks – 40

Q.1)

A) Multiple choice Questions 05M

1. According to the Law of Segregation, during gamete formation, What separates from each other

- a) Genes located on the same chromosomes b) Dominant and Recessive alleles
c) Identical alleles d) Sister chromatids

2. Mendel's Law of Dominance explains the inheritance of traits controlled by

- a) Multiple alleles b) Recessive alleles only
c) Dominant alleles only d) Codominant alleles

3. Linkage in Drosophila was first discovered by

- a) Morgan b) Bateson and Punnett c) Sturtevant d) Bridges

4. Various interlinked food chains in a community is called as

- a) Food chain b) Food web c) Both a and b d) Lotic

5. In terrestrial ecosystem the most important gases used by plants and animals are

- a) Oxygen b) Carbon dioxide c) Nitrogen d) All of these

B) Answer in one sentence

05M

a) Define Law of Dominance

b) What is Linkage?

c) Which eye colour is dominant in Drosophila?

d) What are the two major types of ecosystem?

e) What is Lentic ecosystem

Q.2) a) Differentiate between supplementary and complimentary gene interaction 03M
OR

b) Define Law of Segregation

c) Describe Law of Dominance in details with example. 07M

OR

d) What is duplicate factors with example

Q.3) e) ABO blood group in man

03M

OR

f) Copy Choice theory

g) Describe in detail in Darlington theory

07M

OR

h) Describe in detail complete and incomplete linkage

03M

Q.4) i) Define autotrophs

OR

j) What is edge effect?

k) What do you understand by food chain? Write on different types of food chains operating in the ecosystem 07M

OR

l) What are aquatic ecosystem? Write the types of aquatic ecosystem

Vinayak Vidnyan Mahavidyalaya, Nandgaon (Kh), Dist. Amravati.

Unit Test: S-2024

B.Sc. III; Semester – VI

Subject – Zoology

Date: 23/04/2024

Time: 1 hrs.

Max. Marks: 30

Q. 1. A) Fill in the blanks

2Marks.

- i Gene transformation was first studied by grifith in _____
- ii. The full form of DNA is _____
- iii. Sickel cell is a blood disease caused by _____
- iv. The left Handed DNA is _____

B) Multiple choice question

2 Marks

- v. Blenders experiment was performed by
a) Mendel) Hershey Chase c) Ascaris d) Sycon
- vi. Base pair present per spiral of double stranded B-DNA
a) 10 b) 12 c) 13 d) 11
- vii. _____ got Nobel prize for invention of PCR
a) Karry B. Mullis b) Alec Jeffery c) T.H. Morgan d) H.O. Smith
- viii. Unwinding of DNA is done by
a) Helicase b) Ligase c) hexonuclease d) Topoisomerase

C) Answer in one sentence

2Marks.

- ix. Name the types of DNA.
- x. What are nucleotides.

Q. 2. Describe the following

12 Marks

- a) Describe Structure and Function of rRNA?
- b) Split genes
- c) What is Polymerase chain reaction

OR

- d) Mitochondrial DNA
- e) DNA Polymerase enzyme
- f) What are induced mutation

Q. 3 Hershey and Chase DNA experiment

12 Marks

OR

Write a note on DNA finger printing

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC I S-II			Subject: Zoology / Botany		
Date: April 2024			Name of Invigilator: Subodh Bansod		
Sr.N	Name	Mob No	Subject Group	Attendance	Rem
1.	Atibah Noor Sheikh Shafi . *	7620266993	BOT,CHE,ENG,HIN,ZOO	<i>Subodh</i>	
2.	Mohammad Sahil Ab. Junaid	8459566578	BOT,CHE,ENG,HIN,ZOO		
3.	Mohd Adnan Zaki	9309070522	BOT,CHE,ENG,HIN,ZOO		
4.	Mohd Altamash Motlani	9284097289	BOT,CHE,ENG,HIN,ZOO		
5.	Pallavi Ramvijay Gofane	9657635537	BOT,CHE,ENG,HIN,ZOO	<i>Pallavi</i>	
6.	Sarim Ahmad Mateen Khan .	7558409968	BOT,CHE,ENG,HIN,ZOO		
7.	Sayyed Awaise Sayyed Anees .	7058128459	BOT,CHE,ENG,HIN,ZOO		
8.	Vivek Himmat Meshram	9322792027	BOT,CHE,ENG,HIN,ZOO		
9.	Aakansha Siddharth Chavhan	9325914584	BOT,CHE,ENG,MAR,ZOO		
10.	Achal Babarao Shelare	8010597864	BOT,CHE,ENG,MAR,ZOO	<i>Achale</i>	
11.	Achal Hansraj Patil	8010706285	BOT,CHE,ENG,MAR,ZOO	<i>Achal</i>	
12.	Adesh Ravindra Chaware	9022374142	BOT,CHE,ENG,MAR,ZOO	<i>Adesh</i>	
13.	Aditi Ashish Jadhao	7498412763	BOT,CHE,ENG,MAR,ZOO	<i>Aditi</i>	
14.	Aniket Jitendra Khadse	9322437370	BOT,CHE,ENG,MAR,ZOO	<i>Aniket</i>	
15.	Devanshu Banduji Balapure	9359330116	BOT,CHE,ENG,MAR,ZOO		
16.	Dhiraj Hardam Bhosale	8767768167	BOT,CHE,ENG,MAR,ZOO		
17.	Jayashri Vinod Ganvir	8830592935	BOT,CHE,ENG,MAR,ZOO	<i>Jayashri</i>	
18.	Karan Raju Ganvir	7499035345	BOT,CHE,ENG,MAR,ZOO	<i>Karan</i>	
19.	Kartik Mangesh Gondane	9620633752	BOT,CHE,ENG,MAR,ZOO		
20.	Kunal Devgir Giri	9359889268	BOT,CHE,ENG,MAR,ZOO		
21.	Mayuri Jayraj Lonare	9322235802	BOT,CHE,ENG,MAR,ZOO	<i>Mayuri</i>	
22.	Namrata Santosh Pawar	9665688372	BOT,CHE,ENG,MAR,ZOO	<i>Namrata</i>	
23.	Nandini Dnyaneshwar Deshmukh	8767828371	BOT,CHE,ENG,MAR,ZOO	<i>Nandini</i>	
24.	Nandini Narendra Marotkar	8857966470	BOT,CHE,ENG,MAR,ZOO	<i>Nandini</i>	
25.	Nayana Suresh Wankhade	7666461920	BOT,CHE,ENG,MAR,ZOO		
26.	Nikhil Devendra Marabde	9322616528	BOT,CHE,ENG,MAR,ZOO	<i>Nikhil</i>	
27.	Pallavi Vasant Thakare	8668786898	BOT,CHE,ENG,MAR,ZOO	<i>Pallavi</i>	
28.	Pooja Ashok Sontakke	8080538463	BOT,CHE,ENG,MAR,ZOO	<i>Pooja</i>	
29.	Radhika Bhagwantrao Kanse	9322647382	BOT,CHE,ENG,MAR,ZOO	<i>Radhika</i>	
30.	Rahul Ramesh Marotkar	9322431884	BOT,CHE,ENG,MAR,ZOO		
31.	Rohini Sumesh Kanse	9579455183	BOT,CHE,ENG,MAR,ZOO	<i>Rohini</i>	
32.	Rutuja Shrikrushna Vaidya	7620133074	BOT,CHE,ENG,MAR,ZOO	<i>Rutuja</i>	
33.	Sakshi Anil Rathod	9325227806	BOT,CHE,ENG,MAR,ZOO	<i>Sakshi</i>	
34.	Samiksha Gajanan Deulkar	8554961013	BOT,CHE,ENG,MAR,ZOO	<i>Samiksha</i>	
35.	Sanika Ramhari Shete	7666674132	BOT,CHE,ENG,MAR,ZOO	<i>Sanika</i>	
36.	Sarvesh Dipak Puram	7498219671	BOT,CHE,ENG,MAR,ZOO		
37.	Saurabh Gajanan Rajkule	7767034620	BOT,CHE,ENG,MAR,ZOO		
38.	Shrutika Sachidanand Adhau	9021512315	BOT,CHE,ENG,MAR,ZOO		
39.	Simran Pralhad Kanse	9021507016	BOT,CHE,ENG,MAR,ZOO	<i>Simran</i>	
40.	Sneha Gajanan Chinchurkar	7820962851	BOT,CHE,ENG,MAR,ZOO	<i>Sneha</i>	
41.	Surabhi Rajendra Sahare	8767164386	BOT,CHE,ENG,MAR,ZOO	<i>Surabhi</i>	
42.	Suraj Ambadas Chaware	9325761878	BOT,CHE,ENG,MAR,ZOO	<i>Suraj</i>	
43.	Swati Ashish Jadhao	7498412763	BOT,CHE,ENG,MAR,ZOO	<i>Swati</i>	
44.	Tanvi Vivek Kanse	7620855154	BOT,CHE,ENG,MAR,ZOO	<i>Tanvi</i>	
45.	Vaidehi Vinod Koche	7499527706	BOT,CHE,ENG,MAR,ZOO		
46.	Vaishnavi Vasudev Raut	8975295871	BOT,CHE,ENG,MAR,ZOO		
47.	Vishal Dadarao Bhagwe	9579292479	BOT,CHE,ENG,MAR,ZOO	<i>Vishal</i>	
Total No. Students on Roll		47	Invigilators Sign	Exam Coordin	

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC II SEM. -IV				Subject: Zoology	
Date: Apr. 2024		Name of Invigilator			
Roll No.	Name	Mob No	Subject Group	Attendance	Remarks
1.	Achal Ashok Pachpor	7558554839	BOT,CHE,ZOO	<i>[Signature]</i>	
2.	Achal Vijay Agham	9373056177	BOT,CHE,ZOO		
3.	Aditi Sunil Diwekar	7620558309	BOT,CHE,ZOO		
4.	Akansha Baburao Waghade	8605065631	BOT,CHE,ZOO		
5.	Akash Vijay Deshmukh	7249365925	BOT,CHE,ZOO	<i>[Signature]</i>	
6.	Alfiya Firdos Firoz Zarina .	9767166677	BOT,CHE,ZOO		
7.	Aziz Khan Faizan Khan .	7507708059	BOT,CHE,ZOO		
8.	Darshana Vinod Bale	8767203364	BOT,CHE,ZOO	<i>[Signature]</i>	
9.	Ishwari Sharad Bhuse	7276132987	BOT,CHE,ZOO	<i>[Signature]</i>	
10.	Karan Dipakrao Gawai	9370835333	BOT,CHE,ZOO		
11.	Khansa Firdos Shiakh Nisar .	8208123621	BOT,CHE,ZOO	<i>[Signature]</i>	
12.	Khushi Ravindra Thakare	9322772292	BOT,CHE,ZOO	<i>[Signature]</i>	
13.	Komal Mukund Tupatkar	8668535931	BOT,CHE,ZOO	<i>[Signature]</i>	
14.	Lakshmi Vijayrao Raut	9834863190	BOT,CHE,ZOO		
15.	Mauli Sudhi Tayade	7499410131	BOT,CHE,ZOO	<i>[Signature]</i>	
16.	Mohd Saad Mohd Salim .	9420944452	BOT,CHE,ZOO		
17.	Mohd Shaikh Mohd Mujahid .	8669839078	BOT,CHE,ZOO		
18.	Nividita Anil Pawar	9322638733	BOT,CHE,ZOO	<i>[Signature]</i>	
19.	Pornima Gajanan Ugale	7298424249	BOT,CHE,ZOO	<i>[Signature]</i>	
20.	Pragati Kailas Barde	9511615341	BOT,CHE,ZOO		
21.	Radhika Rajeshrao Deshmukh	8010116223	BOT,CHE,ZOO		
22.	Reshma Shahid Khan	8830420589	BOT,CHE,ZOO	<i>[Signature]</i>	
23.	Reva Gajanan Khadse	9322295570	BOT,CHE,ZOO	<i>[Signature]</i>	
24.	Rutuja Milind Thakare	8010486091	BOT,CHE,ZOO	<i>[Signature]</i>	
25.	Sakshi Sudhakar Dandge	9322940261	BOT,CHE,ZOO	<i>[Signature]</i>	
26.	Samiksha Pramod Chore	9657662369	BOT,CHE,ZOO	<i>[Signature]</i>	
27.	Sanket Meghraj Wankhade	8261858412	BOT,CHE,ZOO	<i>[Signature]</i>	
28.	Shaikh Yunus Mohd Awez .	9767461282	BOT,CHE,ZOO		
29.	Shreya Anil Khandar	7709619771	BOT,CHE,ZOO	<i>[Signature]</i>	
30.	Sneha Pravin Sonone	9665778130	BOT,CHE,ZOO	<i>[Signature]</i>	
31.	Snehal Chandrashekhar Dhulandar	9158743076	BOT,CHE,ZOO	<i>[Signature]</i>	
32.	Vaishnavi Avinash Bhojar	7666057138	BOT,CHE,ZOO	<i>[Signature]</i>	
33.	Vaishnavi Sudhakar Gilabe	9923578822	BOT,CHE,ZOO	<i>[Signature]</i>	
34.	Yash Anilrao Tayade	9373436736	BOT,CHE,ZOO	<i>[Signature]</i>	
35.					
Total No. Students on Roll			Invigilators Sign	Exam Coordinator	
No. of Students Present		22	<i>[Signature]</i> 14/24		

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC III			Subject: Zoology		
Date: APR. 2024		Name of Invigilator:			
SrNo	Name	Mob No	Subject Group	Attendance	Remark
1.	Aarati Nandkishor Mokalekar	9022544467	BOT,CHE,ZOO	A.N.mokalekar	
2.	Adarsh Sanjayrao Pande	8788827561	BOT,CHE,ZOO	Adarsh	
3.	Adeeba Anam Ikramuddin .	8767330732	BOT,CHE,ZOO	Adeeba	
4.	Aditya Kishor Pawar	7276179893	BOT,CHE,ZOO	Aditya	
5.	Aniket Rupraoji Chawale	8484906695	BOT,CHE,ZOO	Aniket	
6.	Aniket Sambhaji Meshram	7620634554	BOT,CHE,ZOO	Aniket	
7.	Anisha Vijay Deshmukh	7219426302	BOT,CHE,ZOO	Anisha	
8.	Ankush Maroti Jadhao	7887551712	BOT,CHE,ZOO	Ankush	
9.	Anushri Gajanan Rohankar	8080036192	BOT,CHE,ZOO	Anushri	
10.	Ashwini Dhanraj Tirmare	8080781155	BOT,CHE,ZOO	Ashwini	
11.	Ashwini Ravindra Wankhade	9021447813	BOT,CHE,ZOO	Ashwini	
12.	Ayan Naim Khan	8999109007	BOT,CHE,ZOO	Ayan	
13.	Bhushan Yogeshwar Chawale	7741881082	BOT,CHE,ZOO	Bhushan	
14.	Disha Vijay Khobragade	8600974873	BOT,CHE,ZOO	Disha	
15.	Hassan Ahmad Rizwanullah Khan	7378770106	BOT,CHE,ZOO	Hassan	
16.	Jayshri Shamraoji Solanke	8830362662	BOT,CHE,ZOO	J.S.solanke.	
17.	Jyotsna Gajanan Laybar	8766583227	BOT,CHE,ZOO	Jyotsna	
18.	Leena Ganesh Ghodeswar	9359781899	BOT,CHE,ZOO	Leena	
19.	Mohini Sunil Makode	9607322428	BOT,CHE,ZOO	Mohini	
20.	Nayana Dadarao Gopnarayan	9322016781	BOT,CHE,ZOO	Nayana	
21.	Pallavi Vilas Khune	7498633524	BOT,CHE,ZOO	P.V.Khune	
22.	Prajakta Pramod Inzalkar	9579443490	BOT,CHE,ZOO	Prajakta	
23.	Price Arvind Nandagawali	9049940702	BOT,CHE,ZOO	Price	
24.	Reva Mahendra Gedam	9579702968	BOT,CHE,ZOO	Reva	
25.	Rohini Jagdish Bahurupi	9561260635	BOT,CHE,ZOO	Rohini	
26.	Sakshi Shyam Bavankule	8857067162	BOT,CHE,ZOO	Sakshi	
27.	Sanika Sahadev Lute	7972617222	BOT,CHE,ZOO	Sanika	
28.	Sayyed Maaz Misbahuddin	8010362849	BOT,CHE,ZOO	Sayyed	
29.	Shraddha Rajkumar Dhage	9699402219	BOT,CHE,ZOO	S.R.Dhage	
30.	Sneha Manohar Satpaise	9923426132	BOT,CHE,ZOO	S.M.Satpaise	
31.	Vaishnavi Anil More	9356602820	BOT,CHE,ZOO	Vaishnavi	
32.	Vaishnavi Rajendra Ghawat	9689957499	BOT,CHE,ZOO	Vaishnavi	
33.	Yogini Lileshwar Mate	9209073836	BOT,CHE,ZOO	Yogini	
34.	Zuberka Gaffarkha Pathan	8263997228	BOT,CHE,ZOO	Zuberka	
35.					
Total No. Students on Roll				Invigilators Sign	Exam Coordinator
No. of Students Present					

Vinayak Vidnyan Mahavidyalaya, Nandgaon (kh) Department of Zoology

Result

Unit Test Summer 2024

B.Sc I , Sem II

Final Marks

Sr	Name of the student	Max Marks 30	Marks	Calculated Marks
	Atibah Noor Sheikh Shafi .	30	20	10
2.	Mohammad Sahil Abdul Junaid .	30	11	07
3.	Mohd Adnan Zaki Mohd Shafique	30	22	10
4.	Mohd Altamash Mohd Yahya Motlani	30	12	07
5.	Pallavi RamvijayGofane	30	25	12
6.	Sarim Ahmad Mateen Khan .	30	12	07
7.	Sayyed Awaise Sayyed Anees .	30	20	10
8.	Vivek Himmat Meshram	30	24	12
9.	Aakansha Siddharth Chavhan	30	28	12
10.	Achal BabaraoShelare	30	12	07
11.	Achal Hansraj Patil	30	24	12
12.	Adesh Ravindra Chaware	30	22	10
13.	Aditi Ashish Jadhao	30	22	10
14.	Aniket Jitendra Khadse	30	11	07
15.	DEVANSHU BANDUJI BALAPURE	30	24	12
16.	Dhiraj Hardam Bhosale	30	26	12
17.	JAYASHRI VINOD GANVIR	30	24	12
18.	Karan Raju Ganvir	30	15	07
19.	Kartik Mangesh Gondane	30	22	10
20.	Kunal Devgir Giri	30	12	07
21.	Mayuri Jayraj Lonare	30	24	12
22.	NAMRATA SANTOSH PAWAR	30	25	12
23.	Nandini Dnyaneshwar Deshmukh	30	24	12
24.	Nandini Narendra Marotkar	30	24	12
25.	Nayana Suresh Wankhade	30	11	07
26.	Nikhil Devendra Marabde	30	24	12
27.	Pallavi Vasant Thakare	30	28	12
28.	POOJA ASHOK SONTAKKE	30	28	12
29.	RADHIKA BHAGAWANTRAO KANSE	30	20	10
30.	Rahul Ramesh Marotkar	30	24	12
31.	Rohini Sumesh Kanse	30	24	12
32.	Rutuja Shrikrushna Vaidya	30	20	10
33.	Sakshi Anil Rathod	30	24	12
34.	Samiksha Gajanan Deulkar	30	12	07

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

35.	Sanika Ramhari Shete	30	20	10
36.	Sarvesh Dipak Puram	30	04	07
37.	Saurabh Gajanan Rajkule	30	27	12
38.	Shrutika Sachidanand Adhau	30	15	07
39.	Simran Pralhad Kanse	30	24	12
40.	Sneha Gajanan Chinchurkar	30	20	10
41.	Surabhi Rajendra Sahare	30	14	07
42.	Suraj Ambadas Chaware	30	20	10
43.	Swati Ashish Jadhao	30	24	12
44.	Tanvi Vivek Kanse	30	24	12
45.	Vaidehi Vinod Koche	30	24	12
46.	Vaishnavi Vasudev Raut	30	26	12
47.	Vishal Dadarao Bhagwe	30	24	12

Vinayak Vidnyan Mahavidyalaya, Nandgaon (kh)
Department of Zoology
Unit Test Summer 2024
B.Sc II, Sem III
Final Marks

Sr No	Name of the student	Max Marks 30	Marks	Calculated Marks
1.	Achal Ashok Pachpor	30	20	10
2.	Achal Vijay Agham	30	11	07
3.	Aditi Sunil Diwekar	30	22	10
4.	Akansha Baburao Waghade	30	12	07
5.	Akash Vijay Deshmukh	30	25	12
6.	Alfiya Firdos Firoz Zarina .	30	12	07
7.	Aziz Khan Faizan Khan .	30	20	10
8.	Darshana Vinod Bale	30	20	10
9.	Ishwari Sharad Bhuse	30	28	12
10.	Karan Dipakrao Gawai	30	12	07
11.	Khansa Firdos Shiakh Nisar .	30	24	12
12.	Khushi Ravindra Thakare	30	22	10
13.	Komal Mukund Tupatkar	30	22	10
14.	Lakshmi Vijayrao Raut	30	11	07
15.	Mauli Sudhi Tayade	30	20	10
16.	Mohd Saad Mohd Salim .	30	26	12
17.	Mohd Shaikh Mohd Mujahid .	30	24	12
18.	Nividita Anil Pawar	30	15	07
19.	Pornima Gajanan Ugale	30	22	10

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

20.	Pragati Kailas Barde	30	12	07
21.	Radhika Rajeshrao Deshmukh	30	24	12
22.	Reshma Shahid Khan	30	25	12
23.	Reva Gajanan Khadse	30	20	10
24.	Rutuja Milind Thakare	30	24	12
25.	Sakshi Sudhakar Dandge	30	11	07
26.	Samiksha Pramod Chore	30	20	10
27.	Sanket Meghraj Wankhade	30	28	12
28.	Shaikh Yunus Mohd Awez .	30	28	12
29.	Shreya Anil Khandar	30	20	10
30.	Sneha Pravin Sonone	30	20	10
31.	Snehal Chandrashekhar Dhulandar	30	20	10
32.	Vaishnavi Avinash Bhojar	30	20	10
33.	Vaishnavi Sudhakar Gilabe	30	20	10
34.	Yash Anilrao Tayade	30	12	07

Head of the Department

P. Mahalle
Head of the Department
Head
Dept. of Zoology
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya, Nandgaon (kh)
Department of Zoology
Unit Test Summer 2024
B.Sc III , Sem VI
Final Marks

Sr No	Name of the student	Max Marks 30	Marks	Calculated Marks
1.	Aarati NandkishorMokalekar	30	20	10
2.	Adarsh Sanjayrao Pande	30	11	07
3.	Adeeba Anam Ikramuddin	30	22	10
4.	Aditya Kishor Pawar	30	12	07
5.	Amrapali Ravindra Kale	30	25	12
6.	Aniket Pramod Khode	30	12	07
7.	Aniket RupraojiChawale	30	20	10
8.	Aniket Sambhaji Meshram	30	20	10
9.	Anisha Vijay Deshmukh	30	28	12
10.	Ankush MarotiJadhao	30	12	07
11.	Anushree Rohankar	30	24	12
12.	Ashwini Dhanraj Tirmare	30	22	10
13.	Ashwini Ravindra Wankhade	30	22	10
14.	Ayan Naim Khan	30	11	07
15.	Bhushan Yogeshwar Chawale	30	20	10
16.	Diksha Vijay Khobragade	30	26	12
17.	Dnyaneshwari Pandit Zimate	30	24	12
18.	Gaurav Mahendra Avhale	30	15	07
19.	Gaurav Ramdhan Rathod	30	22	10
20.	Hassan Ahmad Rizwanullah Khan	30	12	07
21.	IngrajeetTirsange	30	24	12
22.	Jayshri Shamraoji Solanke	30	25	12
23.	Jyotsna Gajanan Laybar	30	20	10
24.	Krutika Kishor Bhende	30	24	12
25.	Leena Ganesh Ghodeswar	30	11	07
26.	Maaz Misbahuddin Sayyed	30	20	10
27.	Mamta Vijayrao Vaidya	30	28	12
28.	Manisha Sanjay Nimbarte	30	28	12
29.	Mohini Sunil Makode	30	20	10
30.	Nayana DadaraoGopnarayan	30	20	10
31.	Pallavi Vilas Khune	30	20	10
32.	Payal DevidasraoBurade	30	20	10
33.	Pooja Devanand Zodape	30	20	10

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

34.	Prajakta Pramod Inzalkar	30	12	07
35.	Prajwal Balasaheb Khobragade	30	20	10
36.	Prince Arvind Nandagawali	30	04	07
37.	Priti Gajanan Kerekar	30	27	12
38.	Reva Mahendra Gedam	30	15	07
39.	Rohini Jagdish Bahurupi	30	20	10
40.	Sakshi Shyam Bavankule	30	20	10
41.	Salman Khan Yusuf Khan	30	14	07
42.	Sanika Sahadev Lute	30	20	10
43.	Shaikh Sohel Shaikh Rashid	30	20	10
44.	Shraddha Rajkumar Dhage	30	20	10
45.	Sneha Manohar Satpaise	30	24	12
46.	Syed Uzmain Syed Jameel	30	26	12
47.	Tejas Pradip Tambatkar	30	20	10
48.	Vaishnavi Ramdas Neware	30	20	10
49.	Vaishnavi Anil More	30	28	12
50.	Vaishnavi Rajendra Ghawat	30	25	12
51.	Vrushali Namdeoraonichat	30	28	12
52.	Yogini Lileshwar Mate	30	15	07
53.	Zuber Khan Gaffarkha Pathan	30	24	12

Head of the Department

P. Mahalle
Head of the Department
Head
Dept. of Zoology
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.



SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI AFFILIATED

Pravin Khodke Memorial Trust's Vinayak Vidnyan Mahavidyalaya

Tq. Nandgaon Khandeshwar, Dist. Amravati

Date- 30/04/2024

Department of Zoology

Summer 2024 Unit Test Exam Report

As per university curriculum, Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar had conducted **Winter 2023** unit test exam from date **19th to 23th April 2024**. In this examination

Result Analysis of subject Zoology of B.Sc. I Semester II, B.Sc. II Semester IV and B.Sc. III Semester VI. As follows,

B.Sc. Part I Semester I

Total No. students	No. of appeared Students	No. of Student Absent	Pass	Fail
47	47	00	47	00

B.Sc. Part II Semester III

Total No. students	No. of appeared Students	No. of Student Absent	Pass	Fail
34	34	00	34	00

B.Sc. Part III Semester V

Total No. students	No. of appeared Students	No. of Student Absent	Pass	Fail
53	53	00	53	00

The students responded well in this exam. Also, from the marks they got, it seems that they were able to solve this exam in a good way. Also, from the marks they got, it seems that they were well prepared for the exam.

His preparation for the exam was good based on the way he faced the exam. On an average, this Winter session exam has been very satisfying for the students and it will definitely benefit the students in the upcoming university exams.

P. Mahalle
Head of the Department
Dept. of Zoology
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KHANDESHWAR				
UNIT TEST EXAMINATION WINTER-2023				
Class: B.Sc. Part III Semester V			Date: 3 rd November 2023	
SUBJECT: CHEMISTRY				
Sr.No.	Name	Mob No	Subject Group	Attendance
1	Aarati Nandkishor Mokalekar	9022544467	BOT, CHE, ZOO	Aarati Mokalekar
2	Adarsh Sanjayrao Pande	8788827561	BOT, CHE, ZOO	Adarsh Pande
3	Adeeba Anam Ikramuddin	8767330732	BOT, CHE, ZOO	Adeeba
4	Aditya Kishor Pawar	7276179893	BOT, CHE, ZOO	Pawar
5	Aniket Rupraoji Chawale	8484906695	BOT, CHE, ZOO	Aniket Chawale
6	Aniket Sambhaji Meshram	7620634554	BOT, CHE, ZOO	Aniket Meshram
7	Anisha Vijay Deshmukh	7219426302	BOT, CHE, ZOO	Anisha Deshmukh
8	Ankush Maroti Jadhao	7887551712	BOT, CHE, ZOO	Ankush Jadhao
9	Anushri Gajanan Rohankar	8080036192	BOT, CHE, ZOO	Anushri Rohankar
10	Ashwini Dhanraj Tirmare	8080781155	BOT, CHE, ZOO	Ashwini Tirmare
11	Ashwini Ravindra Wankhade	9021447813	BOT, CHE, ZOO	Ashwini Wankhade
12	Ayan Naim Khan	8999109007	BOT, CHE, ZOO	Ayan Khan
13	Bhushan Yogeshwar Chawale	7741881082	BOT, CHE, ZOO	Bhushan Chawale
14	Disha Vijay Khobragade	8600974873	BOT, CHE, ZOO	D.V. Khobragade
15	Hassan Ahmad R. Khan	7378770106	BOT, CHE, ZOO	Hassan Khan
16	Jayshri Shamraoji Solanke	8830362662	BOT, CHE, ZOO	J.S. Solanke
17	Jyotsna Gajanan Laybar	8766583227	BOT, CHE, ZOO	Jyotsna Laybar
18	Leena Ganesh Ghodeswar	9359781899	BOT, CHE, ZOO	Leena Ghodeswar
19	Mohini Sunil Makode	9607322428	BOT, CHE, ZOO	Mohini Makode
20	Nayana Dadarao Gopnarayan	9322016781	BOT, CHE, ZOO	Nayana Gopnarayan
21	Pallavi Vilas Khune	7498633524	BOT, CHE, ZOO	P.V. Khune
22	Prajakta Pramod Inzalkar	9579443490	BOT, CHE, ZOO	Prajakta Inzalkar
23	Price Arvind Nandagawali	9049940702	BOT, CHE, ZOO	Price Nandagawali
24	Reva Mahendra Gedam	9579702968	BOT, CHE, ZOO	Reva Gedam
25	Rohini Jagdish Bahurupi	9561260635	BOT, CHE, ZOO	Rohini Bahurupi
26	Sakshi Shyam Bavankule	8857067162	BOT, CHE, ZOO	Sakshi Bavankule
27	Sanika Sahadev Lute	7972617222	BOT, CHE, ZOO	Sanika Lute
28	Sayyed Maaz Misbahuddin	8010362849	BOT, CHE, ZOO	Sayyed Maaz Misbahuddin

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Sr.No.	Name	Mob No	Subject Group	Attendance
29	Shraddha Rajkumar Dhage	9699402219	BOT, CHE, ZOO	S.R. Dhage
30	Sneha Manohar Satpaise	9923426132	BOT, CHE, ZOO	S.M. Satpaise.
31	Vaishnavi Anil More	9356602820	BOT, CHE, ZOO	V. More
32	Vaishnavi Rajendra Ghawat	9689957499	BOT, CHE, ZOO	V. Ghawat
33	Yogini Lileshwar Mate	9209073836	BOT, CHE, ZOO	Y. Mate
34	Zuberkha Gaffarkha Pathan	8263997228	BOT, CHE, ZOO	Z. Pathan
35	Chetan Ganeshrao Vaidya	8806680775	CHE, MTH, PHY	C. Vaidya
36	Komal Rajesh Narode	8767123060	CHE, MTH, PHY	K. Narode
37	Pratik Rajendra Shendre	9021356371	CHE, MTH, PHY	P. Shendre
38	Sakshi Hemantrao Sonone	7350958117	CHE, MTH, PHY	S. Sonone
39	Sameer Damodhar Dhomane	9657435955	CHE, MTH, PHY	S. Dhomane
40	Shyam Niranjn Kanse	7709617712	CHE, MTH, PHY	S. Kanse
41	Vaishnavi Ratnakar Belsare	8668843628	CHE, MTH, PHY	V. Belsare
Total Number of Students Enrolled		41	Name of Invigilator	Sign
Total Number of Students Present		41	Dr. K. P. Kalkade	
Total Number of Students Absent		00		


 3 Nov 2023
Dr. Anant Wadatkar
Examination Coordinator
 Assistant Professor and Head
 Department of Physics
 Vinayak Vidnyan Mahavidyalaya
 Nandgaon (Kh.), Dist. Amravati

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KHANDESHWAR				
UNIT TEST EXAMINATION WINTER-2023				
Class: B.Sc. Part II Semester III			Date: 4 th November 2023	
SUBJECT: CHEMISTRY				
Sr.No.	Name	Mob No	Subject Group	Attendance
1	Achal Ashok Pachpor	7558554839	BOT, CHE, ZOO	<u>Kalpos</u>
2	Achal Vijay Agham	9373056177	BOT, CHE, ZOO	<u>Agham</u>
3	Aditi Sunil Diwekar	7620558309	BOT, CHE, ZOO	<u>Diwekar</u>
4	Akansha Baburao Waghade	8605065631	BOT, CHE, ZOO	<u>Waghade</u>
5	Akash Vijay Deshmukh	7249365925	BOT, CHE, ZOO	<u>Deshmukh</u>
6	Alfiya Firdos Firoz Zarina	9767166677	BOT, CHE, ZOO	<u>Azmina</u>
7	Aziz Khan Faizan Khan	7507708059	BOT, CHE, ZOO	<u>Khan</u>
8	Darshana Vinod Bale	8767203364	BOT, CHE, ZOO	<u>Bale</u>
9	Ishwari Sharad Bhuse	7276132987	BOT, CHE, ZOO	<u>Bhuse</u>
10	Karan Dipakrao Gawai	9370835333	BOT, CHE, ZOO	<u>Gawai</u>
11	Khansa Firdos Shaikh Nisar	8208123621	BOT, CHE, ZOO	<u>Bhaikh</u>
12	Khushi Ravindra Thakare	9322772292	BOT, CHE, ZOO	<u>Thakare</u>
13	Komal Mukund Tupatkar	8668535931	BOT, CHE, ZOO	<u>Mukatkar</u>
14	Lakshmi Vijayrao Raut	9834863190	BOT, CHE, ZOO	<u>Raut</u>
15	Mauli Sudhi Tayade	7499410131	BOT, CHE, ZOO	<u>Tayade</u>
16	Mohd Saad Mohd Salim	9420944452	BOT, CHE, ZOO	<u>Salim</u>
17	Mohd Shaikh Mohd Mujahid	8669839078	BOT, CHE, ZOO	<u>Mujahid</u>
18	Nivedita Anil Pawar	9322638733	BOT, CHE, ZOO	<u>Pawar</u>
19	Pornima Gajanan Ugale	7298424249	BOT, CHE, ZOO	<u>Ugale</u>
20	Pragati Kailas Barde	9511615341	BOT, CHE, ZOO	<u>Barde</u>
21	Radhika Rajeshrao Deshmukh	8010116223	BOT, CHE, ZOO	<u>Deshmukh</u>
22	Reshma Shahid Khan	8830420589	BOT, CHE, ZOO	<u>Rshathan</u>
23	Reva Gajanan Khadse	9322295570	BOT, CHE, ZOO	<u>Khadse</u>
24	Rutuja Milind Thakare	8010486091	BOT, CHE, ZOO	<u>Thakare</u>
25	Sakshi Sudhakar Dandge	9322940261	BOT, CHE, ZOO	<u>Dandge</u>
26	Samiksha Pramod Chore	9657662369	BOT, CHE, ZOO	<u>Chore</u>
27	Sanket Meghraj Wankhade	8261858412	BOT, CHE, ZOO	<u>Wankhade</u>
28	Shaikh Yunus Mohd Awez	9767461282	BOT, CHE, ZOO	<u>Shaikh</u>

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Sr.No.	Name	Mob No	Subject Group	Attendance
29	Shreya Anil Khandar	7709619771	BOT, CHE, ZOO	<i>Shreya</i>
30	Sneha Pravin Sonone	9665778130	BOT, CHE, ZOO	<i>Sonone</i>
31	Snehal C. Dhulandar	9158743076	BOT, CHE, ZOO	<i>Snehal</i>
32	Vaishnavi Avinash Bhoyar	7666057138	BOT, CHE, ZOO	<i>Vaishnavi</i>
33	Vaishnavi Sudhakar Gilabe	9923578822	BOT, CHE, ZOO	<i>Gilabe</i>
34	Yash Anilrao Tayade	9373436736	BOT, CHE, ZOO	<i>Y.A. Tayade</i>
35	Ahmar Waqqas Mo. Rafique	7785999125	CHE, MTH, PHY	<i>Ahmar</i>
36	Divya Nilesh Gawande	9960333907	CHE, MTH, PHY	<i>Divya Gawande</i>
37	Divya Santosh Raut	9511280459	CHE, MTH, PHY	<i>Divya</i>
38	Gitanjali Gajanan Gudadhe	9011027765	CHE, MTH, PHY	<i>Gudadhe</i>
39	Om Dattatray Puri	9370169458	CHE, MTH, PHY	<i>Om Puri</i>
40	Sahil Dipak Gedam	9322569423	CHE, MTH, PHY	<i>Gedam</i>
41	Saurav Amardeep Meshram	9322346258	CHE, MTH, PHY	<i>S.A. Meshram</i>
42	Shantanu Pramod Thakare	8010237958	CHE, MTH, PHY	<i>S.P. Thakare</i>
43	Shraddha Santosh Raut	9834735353	CHE, MTH, PHY	<i>Raut</i>
44	Sujal Bharat Bhagat	8766036599	CHE, MTH, PHY	<i>S.Bhagat</i>
45	Suyog Vishnu Gadling	7083537021	CHE, MTH, PHY	<i>S.V. Gadling</i>
46	Vansh Chandrashekhhar Dandge	9322712514	CHE, MTH, PHY	<i>Dandge</i>
47	Vedant Vinodrao Gayakwad	9657707953	CHE, MTH, PHY	<i>Vedant</i>
Total Number of Students Enrolled		47	Name of Invigilator	Sign
Total Number of Students Present		47	<i>Dr. Vinod Meshram</i>	<i>Meshram</i>
Total Number of Students Absent		00		

Dr. Anant Wadatkar
 4 NOV 2023
Dr. Anant Wadatkar
 Assistant Professor and Head
 Department of Physics
 Vinayak Vidnyan Mahavidyalaya
 Nandgaon (Kh.), Dist. Amravati

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON KHANDESHWAR				
UNIT TEST EXAMINATION WINTER-2023				
Class: B.Sc. Part I Semester I			Date: 2 nd November 2023	
SUBJECT: CHEMISTRY				
Sr.No.	Name	Mob No	Subject Group	Attendance
1	Atibah Noor Sheikh Shafi.	7620266993	BOT, CHE, ENG, HIN, ZOO	<i>Atibah</i>
2	Mohammad Sahil Ab. Junaid	8459566578	BOT, CHE, ENG, HIN, ZOO	<i>Mohammad</i>
3	Mohd Adnan Zaki	9309070522	BOT, CHE, ENG, HIN, ZOO	<i>Adnan</i>
4	Mohd Altamash Motlani	9284097289	BOT, CHE, ENG, HIN, ZOO	<i>Altamash</i>
5	Pallavi Ramvijay Gofane	9657635537	BOT, CHE, ENG, HIN, ZOO	<i>Pallavi</i>
6	Sarim Ahmad Mateen Khan	7558409968	BOT, CHE, ENG, HIN, ZOO	<i>Sarim</i>
7	Sayyed Awaish Sayyed Anees	7058128459	BOT, CHE, ENG, HIN, ZOO	<i>Sayyed</i>
8	Vivek Himmat Meshram	9322792027	BOT, CHE, ENG, HIN, ZOO	<i>Vivek</i>
9	Aakansha Siddharth Chavhan	9325914584	BOT, CHE, ENG, HIN, ZOO	<i>Aakansha</i>
10	Achal Babarao Shelare	8010597864	BOT, CHE, ENG, HIN, ZOO	<i>Ashelare</i>
11	Achal Hansraj Patil	8010706285	BOT, CHE, ENG, HIN, ZOO	<i>Achal</i>
12	Adesh Ravindra Chaware	9022374142	BOT, CHE, ENG, HIN, ZOO	<i>Adesh</i>
13	Aditi Ashish Jadhao	7498412763	BOT, CHE, ENG, HIN, ZOO	<i>Aditi</i>
14	Aniket Jitendra Khadse	9322437370	BOT, CHE, ENG, HIN, ZOO	<i>Aniket</i>
15	Devanshu Banduji Balapure	9359330116	BOT, CHE, ENG, HIN, ZOO	<i>Devanshu</i>
16	Dhiraj Hardam Bhosale	8767768167	BOT, CHE, ENG, HIN, ZOO	<i>Dhiraj</i>
17	Jayashri Vinod Ganvir	8830592935	BOT, CHE, ENG, HIN, ZOO	<i>Jayashri</i>
18	Karan Raju Ganvir	7499035345	BOT, CHE, ENG, HIN, ZOO	<i>Karan</i>
19	Kartik Mangesh Gondane	9620633752	BOT, CHE, ENG, HIN, ZOO	<i>Kartik</i>
20	Kunal Devgir Giri	9359889268	BOT, CHE, ENG, HIN, ZOO	<i>Kunal</i>
21	Mayuri Jayraj Lonare	9322235802	BOT, CHE, ENG, HIN, ZOO	<i>Mayuri</i>
22	Namrata Santosh Pawar	9665688372	BOT, CHE, ENG, HIN, ZOO	<i>Namrata</i>
23	Nandini Dnyaneshwar Deshmukh	8767828371	BOT, CHE, ENG, HIN, ZOO	<i>Nandini</i>
24	Nandini Narendra Marotkar	8857966470	BOT, CHE, ENG, HIN, ZOO	<i>Nandini</i>
25	Nayana Suresh Wankhade	7666461920	BOT, CHE, ENG, HIN, ZOO	<i>Nayana</i>
26	Nikhil Devendra Marabde	9322616528	BOT, CHE, ENG, HIN, ZOO	<i>Nikhil</i>
27	Pallavi Vasant Thakare	8668786898	BOT, CHE, ENG, HIN, ZOO	<i>P.v.Thakare</i>

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Sr.No.	Name	Mob No	Subject Group	Attendance
28	Pooja Ashok Sontakke	8080538463	BOT, CHE, ENG, HIN, ZOO	P. Sontakke
29	Radhika Bhagawantrao Kanse	9322647382	BOT, CHE, ENG, HIN, ZOO	R. Kanse
30	Rahul Ramesh Marotkar	9322431884	BOT, CHE, ENG, HIN, ZOO	R. Marotkar
31	Rohini Sumesh Kanse	9579455183	BOT, CHE, ENG, HIN, ZOO	R. Kanse
32	Rutuja Shrikrushna Vaidya	7620133074	BOT, CHE, ENG, HIN, ZOO	R. Vaidya
33	Sakshi Anil Rathod	9325227806	BOT, CHE, ENG, HIN, ZOO	S. Rathod
34	Samiksha Gajanan Deulkar	8554961013	BOT, CHE, ENG, HIN, ZOO	S. Deulkar
35	Sanika Ramhari Shete	7666674132	BOT, CHE, ENG, HIN, ZOO	S. Shete
36	Sarvesh Dipak Puram	7498219671	BOT, CHE, ENG, HIN, ZOO	S. Puram
37	Saurabh Gajanan Rajkule	7767034620	BOT, CHE, ENG, HIN, ZOO	S. Rajkule
38	Shrutika Sachidanand Adhau	9021512315	BOT, CHE, ENG, HIN, ZOO	S. Adhau
39	Simran Pralhad Kanse	9021507016	BOT, CHE, ENG, HIN, ZOO	S. Kanse
40	Sneha Gajanan Chinchurkar	7820962851	BOT, CHE, ENG, HIN, ZOO	S. Chinchurkar
41	Surabhi Rajendra Sahare	8767164386	BOT, CHE, ENG, HIN, ZOO	S. Sahare
42	Suraj Ambadas Chaware	9325761878	BOT, CHE, ENG, HIN, ZOO	S. Chaware
43	Swati Ashish Jadhao	7498412763	BOT, CHE, ENG, HIN, ZOO	S. Jadhao
44	Tanvi Vivek Kanse	7620855154	BOT, CHE, ENG, HIN, ZOO	T. Kanse
45	Vaidehi Vinod Koche	7499527706	BOT, CHE, ENG, HIN, ZOO	V. Koche
46	Vaishnavi Vasudev Raut	8975295871	BOT, CHE, ENG, HIN, ZOO	V. Raut
47	Vishal Dadarao Bhagwe	9579292479	BOT, CHE, ENG, HIN, ZOO	V. Bhagwe
48	Akansha Vitthal Sakharkar	9637650812	CHE, ENG, MAR, MTH, PHY	A. Sakharkar
49	Mayuri Pramod Uike	7350729967	CHE, ENG, MAR, MTH, PHY	M. Uike
50	Nandini Avadhut Chavhan	9422543860	CHE, ENG, MAR, MTH, PHY	N. Chavhan
51	Payal Nagorao Urkade	7219563380	CHE, ENG, MAR, MTH, PHY	P. Urkade
52	Rudresh Gajanan Meshram	7666495380	CHE, ENG, MAR, MTH, PHY	R. G. Meshram
Total Number of Students Enrolled		52	Name of Invigilator	Sign
Total Number of Students Present			Dr. Vinod M. Sherekar	
Total Number of Students Absent				

21/11/2023
 Dr. Anant Wadatar
 Examination Coordinator
 Assistant Professor and Head
 Department of Physics
 Vinayak Vidnyan Mahavidyalaya
 Nandgaon (Kh.), Dist. Amravati

Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh), Dist. Amravati
Unit Test Examination: Winter (2023-24)
B.Sc. Part I Sem-I (CBCS)

Sub: Chemistry

Date: 2nd November 2023

Time: -90 Minutes

Max Marks: -40

Note: - (1) All questions are compulsory.

Q.1. (a) Fill in the blanks: (2 Marks) 1/2X4=2M

- (i) According to Aufbau Principle, Electrons are filled in order of _____.
- (ii) The Inductive effect is due to difference in _____.
- (iii) Cyclopentadiene cation is _____ in nature.
- (iv) NH₂ group is _____ directing.

Q.2. Choose the correct alternative from the following: (4 Marks) 1/2X8=4M

- (i) Halogenation of Benzene is a
(a) Addition Reaction (b) Elimination Reaction
(c) Substitution Reaction (d) Free Radical Reaction

(ii) Benzene reacts with Acetyl Chloride in Lewis acid to give

- (a) Benzophenone (b) Acetophenone
(c) Benzoic Acid (d) Benzaldehyde

(iii) $\text{Cl}-\text{Cl} \longrightarrow 2\text{Cl}^\cdot$

- (a) Homolytic Cleavage (b) Heterolytic Cleavage
(c) Both are correct (d) Both are incorrect

(iv) The central carbon atom in Carbocation is at

- (a) sp³ (b) sp²
(c) sp (d) dsp³

(v) E_i mechanism has

- (a) One Step (b) Two Steps
(c) Three Steps (d) None of the above

(vi) When the value of Principal Quantum Number is 1 then shell will be

- (a) K (b) L
(c) M (d) N

(vii) For p-subshell, the value of l (Azimuthal Quantum Number) will be

- (a) 1 (b) 2
(c) 3 (d) 4

(viii) The correct order of shielding effect of the orbitals is

- (a) s > p > d > f (b) s > p > f > d
(c) f > d > p > s (d) p > f > d > s

Q.3. Answer in one sentence each: (4 Marks)

- i) Write down all the Alkali Metals in periodic table. 1X4= 4M
ii) +I Effect.
iii) Antiaromatic Compound.
iv) Activating Groups.

Q.4. Explain in brief following questions:

- a) What is the application of Quantum Numbers? Explain in detail. (04 Mark)
b) Explain in detail about the Periodic Properties. (04 Mark)
c) Explain the following terms
i) Hund's Rule of Maximum Multiplicity ii) Shape of p-orbitals (02 Marks)

OR

- p) Explain in detail Electron Gain Enthalpy. (04 Mark)
q) What is Diagonal Relationship and explain with suitable examples. (04 Mark)
r) Define the following
i) Ionization Energy ii) Oxidation State (02 Mark)

Q.5. Explain in brief following questions:

- a) Explain the following with suitable examples
i) Carbocation ii) Carbanion (04 Mark)
b) Complete the following reactions (04 Mark)



c) Name the type of isomerism involved in the given organic compounds



OR

- p) Explain the following with suitable examples (04 Mark)
i) Carbene ii) Nitrene (04 Mark)
q) Explain Unimolecular Elimination Reaction with suitable examples. (04 Mark)

Contd...

Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh), Dist. Amravati

Unit Test Examination: Winter (2023-24)

B.Sc. Part-III Sem-III (CBCS)

Date: 4th November 2023

Sub: Chemistry

Time: 90 Minutes

Max. Marks: 40

Note: (1) All questions are compulsory.

Q.1. (a) Fill in the blanks

- The solution of known concentration is known as _____
- The solution taken in a burette used in titration is called as _____
- Maleic acid and fumaric acid are _____ isomer of each other.
- The carbon in carbonyl group is _____ hybridized.

1/2X-1M

Q.2. Choose the correct alternative from the following

- Total number of conformations of ethane is are
 - 2
 - 3
 - 4
 - 4
- The pH range for the titration between strong acid and strong base is
 - 3-10
 - 7-10
 - 3-7
 - 6-7
- Volumetric analysis is also called as
 - Qualitative
 - Titrimetric
 - Gravimetric
 - None of these
- Aliphatic monocarboxylic acid is known as
 - Mineral acid
 - Fatty acids
 - Sulphonic acids
 - None of these
- Carboxylic acid are the oxidation products of
 - Primary alcohols
 - Aldehydes
 - Ketones
 - All of these
- Ester is obtained by the reaction of alcohol with
 - Carboxylic acids
 - Acid anhydrides
 - Acid Chloride
 - All of these
- Which of the following can exist as diastereomers?
 - Lactic Acid
 - 1-Butene
 - 2-Butene
 - None of these
- There is no suitable indicator available for the titration between
 - Strong acid and Strong base
 - Strong acid and Weak base
 - Weak acid and Strong base
 - Weak acid and Weak base

1/2X-1M

Q.3. Answer in one sentence each:

- What is mean by Molarity?
- What is mean by Indicator?
- Define the term racemization.

1X-1M

Q.4. Explain in brief following questions:

- What is Sawhorse projection formula?
- Calculate the molarity and normality of a solution containing 2.0 g of NaOH in 500 cc solution (Molecular wt. of NaOH = 40). 4M
- Explain, why indicator is not suitable for weak acid against weak base. 2M

OR

p) Explain the various steps involved in the gravimetric estimation of barium as barium sulphate. 4M

q) Calculate the molarity and Normality of a solution containing 4.9 g of H₂SO₄ in 500 cc water (Molecular wt. of H₂SO₄ = 40gm). 4M

r) How can you calculate the mole fraction of ethanol and water if solution contains 6 moles of ethanol and 3 moles of water. 2M

Q.5. Explain in brief following questions:

- What is the conformation? Explain the conformation of ethane with energy changes. 4M
- What is mean by resolution? Explain chemical method. 4M
- Draw Newman and Sawhorse projection formulae for ethane Molecules. 2M

OR

- Explain, why chair conformation of cyclohexane is more stable than boat conformation. 4M
- What are the different types of structural isomers? Explain with suitable example. 4M
- What are Meso compounds? Explain with suitable example. 2M

Q.6. Explain in brief following questions:

- How will you synthesize acetaldehyde from
 - Ethyl alcohol 4M
 - Acetylene 4M
- Explain the following reactions
 - Aldol Condensation 4M
 - Mannich Reaction 4M
- Draw orbital picture diagram of Carbonyl Compound. 2M

OR

- Explain the reaction of Lactic Acid in detail. 4M
- Explain the acidity of aliphatic and aromatic acid with suitable examples. 4M
- Explain the following reactions
 - Reformatsky reaction 2M
 - Cannizzaro's Reaction 2M

END OF PAPER

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Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh), Dist. Amravati
Unit Test Examination: Winter (2023-24)
B.Sc. Part III Sem-V (CGS)

Sub: Chemistry

Date: 3rd November 2023

Note: -(1) All questions are compulsory.

Q.1. (a) Fill in the blank

(2 Marks)

- The number of electrons in t_{2g} in d_3 configuration is/are _____.
- The set of axial orbitals is/are _____.
- The geometry for dsp^3 hybridization _____.
- The lower energy orbitals in square planer splitting are _____.

Q.2. Choose the correct alternative from the following:

(2 Marks)

- The molecular formula of Pyrrole is
(a) C_4H_5N (b) C_5H_4N
(c) $C_4H_5N_2$ (d) all are correct.
- The Pyridine shows Nucleophilic substitution reaction at
(a) 2nd Position (b) 3rd Position
(c) 4th Position (d) All are correct.
- The lower energy orbital in case of tetrahedral complex is?
(a) eg (b) t_{2g}
(c) a_1g (d) All of the above.
- In complex the primary valency of the metal is always
(a) Ionic (b) covalent
(c) Zero (d) None

Q.3. Answer in one sentence each:

(4 Marks)

- Basicity of Pyridine.
- What is mean by CFSE?
- What is mean by chelate?
- Define Barrie center.

Q. 4. Explain in brief following questions:

- Explain the reactions of pyridine in detail. (04 Mark)
- Explain the ionic and linkage isomerism. (04 Mark)
- Explain d orbital splitting in tetrahedral complex. (03 Mark)

Q. 5. Explain the following terms:

- Explain the synthetic applications of Organo Magnesium Compound (04 Mark)
- Explain basic concept of chelate (04 Mark)
- Explain the spectrochemical Series. (03 Mark)

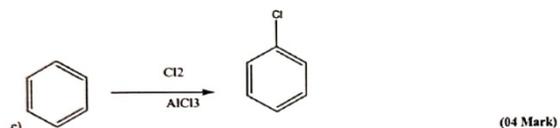
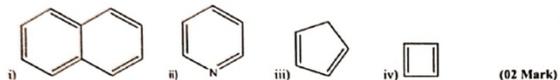
END OF PAPER

Dr. P. P. P.
HEAD
Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

- r) Explain the following (02 Mark)
 i) Saytzeff Rule
 ii) Diels-Alders Reaction

Q.6. Explain in brief following questions:

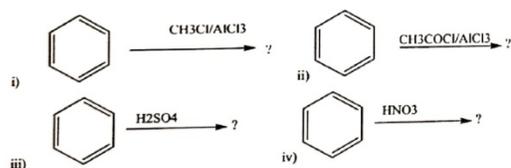
- a) Explain Sigma and Pi skeleton of Benzene with suitable representation. (04 Mark)
 b) Identify the following compounds as Aromatic/Antiaromatic/Non-Aromatic



Name the reaction and give the mechanism.

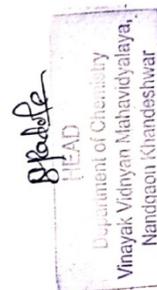
OR

- p) Halogens are Ortho-Para directing but ring deactivating, justify with examples. (04 Mark)
 q) Predict the products (04 Mark)



- r) Explain the formation of Sigma Complex in Electrophilic Aromatic Substitution Reaction. (02 Mark)

END OF PAPER



Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar.
College Unit Test Examination Winter 2023-24)
Department of Chemistry

Class: BSc Part III Semester-V

Subject: Chemistry

Result of Unit Test Examination

Sr. No.	Name of Student	Out of 30 M	Result
34	SHYAM NIRANJAN KANSE	24	pass
35	SNEHA MANOHAR SATPAISE	24	pass
36	VAISHNAVI ANIL MORE	26	pass
37	VAISHNAVI RAJENDRA GHAWAT	26	pass
38	VAISHNAVI RATNAKAR BELSARE	24	pass
39	YOGINI LILESHWAR MATE	25	pass
40	ZUBERKHA GAFFARKHA PATHAN	18	pass
41	SAMEER DHOMANE	17	pass

Date:

Padole
Mr. Nitesh S. Padole
Head of Department

Wadatkar
Dr. Anant S. Wadatkar
Examination Coordinator

Bhise
Dr. Alka A. Bhise
Principal

Dr. Anant S. Wadatkar
Assistant Professor and Head
Department of Physics
Vinayak Vidnyan Mahavidyalaya
Nandgaon (Kh.), Dist. Amravati

VINAYAK VIDNAYAN MAHAVIDYALAY
NANDGAON KH. DIST. AMRAVATI

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar.
College Unit Test Examination Winter (2023-24)
Department of Chemistry

Class: BSc Part I Semester-I

Subject: Chemistry

Result of Unit Test Examination

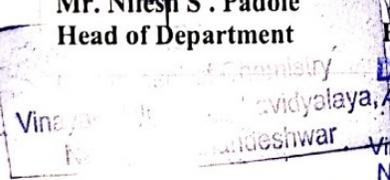
Sr. No.	Name of Student	Out of 40 M	Result
36	SANIKA RAMHARI SHETE	25	PASS
37	SARIM AHMAD MATEEN KHAN	23	PASS
38	SARVESH DIPAK PURAM	17	PASS
39	SAURABH GAJANAN RAJKULE	17	PASS
40	SAYYED AWAISE SAYYED ANEES	21	PASS
41	SHRUTIKA SACHIDANAND ADHAU	16	PASS
42	SIMRAN PRALHAD KANSE	17	PASS
43	SNEHA GAJANAN CHINCHURKAR	18	PASS
44	SURABHI RAJENDRA SAHARE	26	PASS
45	SURAJ AMBADAS CHAWARE	18	PASS
46	SWATI ASHISH JADHAO	17	PASS
47	TANVI VIVEK KANSE	23	PASS
48	VAIDEHI VINOD KOICHE	16	PASS
49	VAISHNAVI VASUDEV RAUT	24	PASS
50	VIVEK HIMMAT MESHARAM	22	PASS
51	YASH SIDDHESHWAR RAUT	17	PASS
52	VISHAL DADARAO BHAGWE	16	PASS

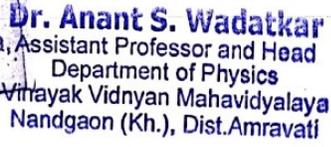
Date:


Mr. Nilesh S. Padole
Head of Department


Dr. Anant S. Wadatkar
Examination Coordinator


Dr. Alka Arindal
Principal
VINAYAK VIDNYAN MAHAVIDYALAYA
NANDGAON KH. DIST. AMRAVATI


Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar


Dr. Anant S. Wadatkar
Assistant Professor and Head
Department of Physics
Vinayak Vidnyan Mahavidyalaya
Nandgaon (Kh.), Dist. Amravati



SANT GAUGE BABA AMRAVATI UNIVERSITY, AMRAVATI AFFILIATED
Pravin Khodke Memorial Trust's
Vinayak Vidnyan Mahavidyalaya
Tq. Nandgaon Khandeshwar, Dist. Amravati
Department of Chemistry

Date: 6th November 2023

Winter- 2023 Unit Test Exam Report

As per university curriculum, Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar had conducted Summer Unit Test Examination from 1st November 2023 to 4th November 2023.

In this examination result Analysis of subject Chemistry for the classes B.Sc. Part I Semester I, B.Sc. Part II Semester III and B.Sc. Part III Semester V were as follows

I) Class: B.Sc. Part I Semester I

Total Number of Students	No. of Students Appeared	No. of Students Absent	Pass	Fail	% Of students Passed
52	52	00	52	00	100

II) Class: B.Sc. Part II Semester III

Total Number of Students	No. of Students Appeared	No. of Students Absent	Pass	Fail	% Of students Passed
45	45	00	45	00	100

III) Class: B.Sc. Part III Semester V

Total Number of Students	No. of Students Appeared	No. of Students Absent	Pass	Fail	% Of students Passed
41	41	00	41	00	100

The students responded well in this Winter Unit Test Examination 2023. Also, from the marks they got, it seems that they were able to solve this examination in a good way and seems that they were well prepared for the examination.

Student's preparation for the examination were good based on their performance in the examination. On an average, this Winter session examination has been very satisfying for the students and it will surely help them in the upcoming university examination.

Sfadle
Mr. Nilesh S. Padole
Head
Department of Chemistry
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Khandeshwar

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC III Sem : V			Subject: Physics		
Date: 02 Nov. 2023		Name of Invigilator: Mr. A.V. Ambhore			
SrNo	Name	Mob No	Subject Group	Attendance	Remark
1.	Chetan Ganeshrao Vaidya	8806680775	CHE,MTH,PHY	<i>Ganeshrao</i>	
2.	Komal Rajesh Narode	8767123060	CHE,MTH,PHY	<i>Komal Narode</i>	
3.	Pratik Rajendra Shendre	9021356371	CHE,MTH,PHY	AB.	
4.	Sakshi Hemantrao Sonone	7350958117	CHE,MTH,PHY	<i>Sonone</i>	
5.	Sameer Damodhar Dhokane	9657435955	CHE,MTH,PHY	<i>Dhokane</i>	
6.	Shyam Niranjn Kanse	7709617712	CHE,MTH,PHY	<i>Kanse</i>	
7.	Vaishnavi Ratnakar Belsare	8668843628	CHE,MTH,PHY	<i>V.Belsare</i>	
8.	Aachal Rajesh Tobre	7498743312	CPS,ETC,PHY	AB	
9.	Nikhil Rajendra Dabre	8308405012	CPS,ETC,PHY	AB	
10.	Prathmesh Dadaraji Hambarde	9158185569	CPS,ETC,PHY	<i>Prathmesh</i>	
11.	Pratik Dattatray Khandar	8080394880	CPS,ETC,PHY	AB	
12.	Yash Vinod Ravekar	8080569997	CPS,ETC,PHY	<i>Yash Ravekar</i>	
13.	Ajinkya Sureshrao Daroi	9307120056	CPS,MTH,PHY	<i>Ajinkya Daroi</i>	
14.	Pratik Jayvantrao Gadekar	9370270670	CPS,MTH,PHY	AB	
15.	Prerna Sanjay Deshmukh	8999950130	CPS,MTH,PHY	<i>Prerna Deshmukh</i>	
16.	Shantanu Avinash Solanke	9370910662	CPS,MTH,PHY	S.A.Solanke	
17.	Shruti Suresh Modi	8637752589	CPS,MTH,PHY	AB	
18.	Vijay Niranjn Gedam	9322146260	CPS,MTH,PHY	V.N.Gedam	
Total No. Students on Roll		18	Invigilators Sign	Exam Coordinator	
No. of Students Present			<i>A.V. Ambhore</i>	Dr. Anant S. Wadkar Assistant Professor and Head Department of Physics Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh.), Dist.Amravati	
No. of Students Absent			2/11/23		

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC II			Subject: Physics		
Date: 03 NOV. 2023			Name of Invigilator: Dr. P. B. Kharwal		
Roll No.	Name	Mob No	Subject Group	Attendance	Remark
1.	Ahmar Waqqas Mohd Rafique	7785999125	CHE,MTH,PHY	A	
2.	Divya Nilesh Gawande	9960333907	CHE,MTH,PHY	A	
3.	Divya Santosh Raut	9511280459	CHE,MTH,PHY	A	
4.	Gitanjali Gajanan Gudadhe	9011027765	CHE,MTH,PHY	A	
5.	Om Dattatray Puri	9370169458	CHE,MTH,PHY	A	
6.	Sahil Dipak Gedam	9322569423	CHE,MTH,PHY	A	
7.	Saurav Amardeep Meshram	9322346258	CHE,MTH,PHY	A	
8.	Shantanu Pramod Thakare	8010237958	CHE,MTH,PHY	A	
9.	Shraddha Santosh Raut	9834735353	CHE,MTH,PHY	A	
10.	Sujal Bharat Bhagat	8766036599	CHE,MTH,PHY	A	
11.	Suyog Vishnu Gadling	7083537021	CHE,MTH,PHY	A	
12.	Vanah Chandrashekar Dandge	9322712514	CHE,MTH,PHY	A	
13.	Vedant Vinodrao Gayakwad	9657707953	CHE,MTH,PHY	A	
14.	Abhijit Pradip Chore	9322269214	CPS,ETC,PHY	A	
15.	Arpita Shankar Waghmare	9322543165	CPS,ETC,PHY	A	
16.	Dhiraj Madhukarrao Kadu	9420590356	CPS,ETC,PHY	A	
17.	Gayatri Ajay Sokare	7350322205	CPS,ETC,PHY	A	
18.	Pallavi Purushottam Mehare	9322543165	CPS,ETC,PHY	A	
19.	Pankaj Gajanan Marotkar	7620414003	CPS,ETC,PHY	A	
20.	Pratik Raju Khadse	7822922763	CPS,ETC,PHY	A	
21.	Pratik Raju Vanjari	8010150025	CPS,ETC,PHY	A	
22.	Roshan Arun Bandabuche	9834965205	CPS,ETC,PHY	A	
23.	Sanket Anil More	9356455892	CPS,ETC,PHY	A	
24.	Satish Dnyaneshwar Thakare	7620188736	CPS,ETC,PHY	A	
25.	Ajay Vijay Binane	9022146595	CPS,MTH,PHY	A	
26.	Damini Ravindra Gatule	7775008471	CPS,MTH,PHY	A	
27.	Gaurav Prakash Ingole	8010197336	CPS,MTH,PHY	A	
28.	Gauri Ajay Tayade	9322959992	CPS,MTH,PHY	A	
29.	Gayatri Anil Wagh	9021476103	CPS,MTH,PHY	A	
30.	Jayesh Narendra Ghawat	8010511288	CPS,MTH,PHY	A	
31.	Karan Sunil Bramhanwade	9175481116	CPS,MTH,PHY	A	
32.	Kaustubh Gajanan Deshmukh	7821803731	CPS,MTH,PHY	A	
33.	Likhit Ashokarao Take	9356816505	CPS,MTH,PHY	A	
34.	Nivedita Diliprao Deshmukh	9370981557	CPS,MTH,PHY	A	
35.	Parthraj Lalitrao Raut	9307641745	CPS,MTH,PHY	A	
36.	Prachi Pramodrao Gawande	782198095	CPS,MTH,PHY	A	
37.	Pranali Buddhadas Agham	9284012704	CPS,MTH,PHY	A	
38.	Pratik Harshchandra Rathod	9322770889	CPS,MTH,PHY	A	
39.	Priya Anil Shambharkar	7666714077	CPS,MTH,PHY	A	
40.	Priya Dashrath Hiwrale	8799902805	CPS,MTH,PHY	A	
41.	Sakshi Naresh Chawate	8605405596	CPS,MTH,PHY	A	
42.	Sakshi Rajendra Banarase	9156942048	CPS,MTH,PHY	A	
43.	Samiksha Ramdas Jambhole	8010639341	CPS,MTH,PHY	A	
44.	Samiksha Vijay Kanse	9322312869	CPS,MTH,PHY	A	
45.	Sanika Rameshwar Wankhade	7499240325	CPS,MTH,PHY	A	
46.	Sanket Dnyaneshwar Payghan	9021837760	CPS,MTH,PHY	A	
47.	Sarthak Raju Veer	9529135816	CPS,MTH,PHY	A	
48.	Shubham Arun Veer	9527142215	CPS,MTH,PHY	A	
49.	Suhani Vijay Nagrale	9834840583	CPS,MTH,PHY	A	
50.	Tejashri Ashok Jewade	7620002474	CPS,MTH,PHY	A	
51.	Trupti Subhash Kakade	8055107690	CPS,MTH,PHY	A	
52.	Vaishali Gajanan Gudadhe	9011027765	CPS,MTH,PHY	A	
53.	Vaishnavi Rajesh Bhosale	9322141181	CPS,MTH,PHY	A	
54.	Zeeshan Ali Khan Noor Khan	9168147858	CPS,MTH,PHY	A	
Total No. Students on Roll		54	Invigilators Sign	Exam Coordinator	
No. of Students Present			20/11		
No. of Students Absent					

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- BSCIS-1			Subject: Physics		
Date: 04 Nov. 2023			Invigilators Sign. Dr. A. S. Wadatkar		
Roll	Name	Mob No	Subject Group	Attendance	Rem
1.	Abhishek Jagdish Pawar	983479465	CPS,ENG,MAR,MTH,PHY	AB	
2.	Adesh Sudesh Bhoyar	762075674	CPS,ENG,ETC,MAR,PHY	AB	
3.	Akansha Vitthal Sakharkar	963765081	CHE,ENG,MAR,MTH,PHY	AB	
4.	Amita Arnoi Athawale	830819883	CPS,ENG,ETC,MAR,PHY	AB	
5.	Anil Ambadas Sontakke	880699382	CPS,ENG,MAR,MTH,PHY	AB	
6.	Anisha Shankar Kokate	983440195	CPS,ENG,MAR,MTH,PHY	AB	
7.	Atharva Avinash Kanse	876720320	CPS,ENG,MAR,MTH,PHY	AB	
8.	Avinash Madhukarrao Dhurte	876724847	CPS,ENG,MAR,MTH,PHY	AB	
9.	Ayush Uttamrao Bramhanwade	842116065	CPS,ENG,ETC,MAR,PHY	AB	
10.	Bhavesh Rangrao Shirbhate	902178433	CPS,ENG,MAR,MTH,PHY	AB	
11.	Chirayu Pradip Kukade	982368817	CPS,ENG,ETC,MAR,PHY	AB	
12.	Devanshi Harishchandra Joge	986039366	CPS,ENG,ETC,MAR,PHY	AB	
13.	Dhanshri Rajendra Tankar	770945649	CPS,ENG,ETC,MAR,PHY	AB	
14.	Dimpal Prakash Bokade	982328468	CPS,ENG,MAR,MTH,PHY	AB	
15.	Dipraj Ramdas Zopate	749968757	CPS,ENG,ETC,MAR,PHY	AB	
16.	Gaurav Mangesh Gulhane	876782337	CPS,ENG,MAR,MTH,PHY	AB	
17.	Gayatri Yogendra Dhege	969962756	CPS,ENG,MAR,MTH,PHY	AB	
18.	Harshal Arvindrao Thete	937318428	CPS,ENG,MAR,MTH,PHY	AB	
19.	Harshraj Chandrashekhar	766618754	CPS,ENG,MAR,MTH,PHY	AB	
20.	Hemant Yogiraj Thakare	818086150	CPS,ENG,MAR,MTH,PHY	AB	
21.	Javed Kha Nasib Kha Pathan	876785136	CPS,ENG,ETC,MAR,PHY	AB	
22.	Kajal Nandu Wanjari	846887591	CPS,ENG,MAR,MTH,PHY	AB	
23.	Kartik Rajendra Patil	749917037	CPS,ENG,ETC,MAR,PHY	AB	
24.	Keval Anil Kanse	957939615	CPS,ENG,MAR,MTH,PHY	AB	
25.	Laukik Lalchand Ingole	826198332	CPS,ENG,MAR,MTH,PHY	AB	
26.	Mayuri Pramod Uike	735072996	CHE,ENG,MAR,MTH,PHY	AB	
27.	Nandini Avadhut Chavhan	942254386	CHE,ENG,MAR,MTH,PHY	AB	
28.	Nayan Hemant Sonone	735015508	CPS,ENG,ETC,MAR,PHY	AB	
29.	Payal Nagorao Urkade	721956338	CHE,ENG,MAR,MTH,PHY	AB	
30.	Prachi Pramod Lothe	782208751	CPS,ENG,ETC,MAR,PHY	AB	
31.	Praful Dnyaneshwar Ramteke	951180959	CPS,ENG,ETC,MAR,PHY	AB	
32.	Praful Subhash Bandabuche	932200387	CPS,ENG,ETC,MAR,PHY	AB	
33.	Prajakta Pravin Meshram	801095718	CPS,ENG,MAR,MTH,PHY	AB	
34.	Prajwal Rameshwar Thote	801023632	CPS,ENG,ETC,MAR,PHY	AB	
35.	Pranali Narendra Sonone	982328468	CPS,ENG,MAR,MTH,PHY	AB	
36.	Pranay Pradip Meshram	876719653	CPS,ENG,ETC,MAR,PHY	AB	
37.	Preshit Kishor Sonone	937036828	CPS,ENG,ETC,MAR,PHY	AB	
38.	Rudresh Gajanan Meshram	766649538	CHE,ENG,MAR,MTH,PHY	AB	
39.	Rutvik Kailas Bansod	932266402	CPS,ENG,ETC,MAR,PHY	AB	
40.	Samir Rajkumar Dahatonde	888865784	CPS,ENG,MAR,MTH,PHY	AB	
41.	Sanyam Ananta Jambhale	965759234	CPS,ENG,MAR,MTH,PHY	AB	
42.	Shreyash Dipakrao Dokane	914530344	CPS,ENG,ETC,MAR,PHY	AB	
43.	Shubhangi Ganesh Gaoner	808752312	CPS,ENG,ETC,MAR,PHY	AB	
44.	Tanuja Ravindra Laybar	721807257	CPS,ENG,MAR,MTH,PHY	AB	
45.	Uddhav Vijay Patil	935937758	CPS,ENG,ETC,MAR,PHY	AB	
46.	Yash Gautam Temburne	801005898	CPS,ENG,ETC,MAR,PHY	AB	
47.	Yash Vinayak Shelokar	969987564	CPS,ENG,ETC,MAR,PHY	AB	
48.					
49.					
50.	Total No. Students on Roll	47	Invigilator's Sign	Exam Coordinator	
51.	No. of Students Present				
52.	No. of Students Absent				

Dr. Anant S. Wadatkar
Assistant Professor and Head
Department of Physics
Vinayak Vidnyan Mahavidyalaya
Nandgaon (Kh.), Dist. Amravati

TRAVIN KROOKE MEMORIAL TRUST AMGAVAU S

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.
DEPARTMENT OF PHYSICS

B. Sc. III Sem. - V

Unit Test

Time: - 1 Hr.

Date: - 02 November 2023

Marks: - 30

Que.1. A). Fill in the blanks.

2 Marks

1. The relation _____ is called as de Broglie's relation.
2. The radiation consists of bundles of packets of energy called as _____
3. Stern Gerlach experiment proves.....
4. For a transistor the number of h parameter is...

B. Multiple choice questions.

2 Marks

1. The law which can successfully explain the experimental distribution of energy density over the entire range of wavelengths is
a) Wein's law b) Rayleigh Jeans law c) Rayleigh- Jeans law d) Wein's law
2. The problem of ultraviolet catastrophe arose while explaining
a) Wein's law b) Rayleigh Jeans law c) Rayleigh- Jeans law d) Wein's law
3. Colpitt's oscillator uses
a) Tapped coil b) Tapped capacitance c) Inductive feedback d) RC feedback
4. Feature of Vector Atom Model is
a) Space Quantization b) Wave nature c) Discrete Energy levels d) None of the above

C) Answer in one sentence

2 Marks

1. What is Photoelectric Effect?
2. Write down any two properties of X-rays.

Que.2 Attempt any three of the following (3 marks each)

9 Marks

1. Explain Vector atom model.
2. Explain LS coupling and JJ couplings.
3. Explain the Thought Experiment (Gamma Ray Microscope).
4. Write down the Experimental determination of h-parameters.

Que.3 Attempt any three of the following (5 marks each)

15 Marks

1. Explain Stern Gerlach experiment
2. Explain Compton effect with suitable diagram
3. Explain RC Coupled amplifier.
4. Give the experimental verification of de'Broglie hypothesis.

VINAYAK VIDNYAN MAHAVIDYALAYA, NANDGAON (KH.)

DEPARTMENT OF PHYSICS

B.Sc.- I Sem.-I
Time: 1 Hr.

UNIT TEST

Date: 04 Nov. 2023
Max. Marks : 30

Que.1. A). Fill in the blanks. 2 Marks

- (i) The Moment of Inertia of solid sphere about an axis passing through its center is _____
(ii) Time period of Simple Pendulum is independent of _____
(iii) The equation of parallel axes theorem is _____
(iv) When a satellite revolves in a circular orbit around the earth then _____ force acts upon a satellite.

B. Multiple choice questions. 2 Marks

1. Moment of inertia of a body is considered only in the case of
a) rectilinear motion b) rotational motion
c) rectilinear motion d) translation motion
2. A man swinging on a swing in a sitting position, stands of suddenly, the time period of swing will a) increase
b) decrease c) remains same d) becomes infinite
3. Weightlessness experienced while orbiting the earth in space ship is the result of _____
a) inertia b) acceleration
c) zero gravity d) free fall towards Earth
4. When the external torque acting on a system is zero then there will be conservation of
a) total energy b) angular momentum

C) Answer in one sentence 2 Marks

1. What is inertial frame of reference?
2. What is semiconductor?

Que.2 Attempt any three of the following (3 marks each) 9 Marks

1. State Kepler's laws of planetary motion.
2. Discuss variation of acceleration due to gravity g with altitudes.
3. Explain Galilean transformation.
4. Derive the differential equation of S.H.M. with its solution.

Que.3 Attempt any three of the following (5 marks each) 15 Marks

1. What is Fly-Wheel? Explain with suitable diagram.
2. Derive an expression for the moment of inertia of a solid sphere about an axis passing through the center.
3. What is an artificial satellite derive an expression for orbital speed of satellite.
4. Derive an expression for time period of simple pendulum.

ॐ ॐ ॐ All the Best ॐ ॐ ॐ

Pravin Khodke Memorial Trust Amravati's
Vinayak Vidnyan Mahavidyalaya
Tq. Nandgaon Khandeshwar, Dist. Amravati

B. Sc. Part II Semester III (2023-24)

Subject: Physics

Unit Test Examination Winter 2023

Time: 1 Hr

Date: 03 November, 2023

Marks: 30

1. A. Multiple choice questions. 3 Marks

- 1 Radiations travel with the speed of _____
a: light b: sound c: ultra sound d: None of these
- 2 For Silicon the barrier potential is _____ volt
a: 0.7 b: 0.3 c: 1.1 d: 0.1
- 3 Fermi function is also known as _____
a: Fermi Energy b: Fermi Temperature c: Occupation Index d: None of these

Q.1. B. Fill in the blank. 3 Marks

1. For electrons _____ statistics is applicable.
2. For Silicon the barrier potential is _____ volt
3. For photons _____ statistics is applicable.

Q.1. C. Answer in short (1 mark each) 3 Marks

1. What are Fermions? 2. Define Mean Free Path.
3. What is PN junction diode?

2. Attempt the following (any 3) (3 marks each) 9 Marks

- a) Explain Bose-Einstein statistics.
- b) Explain Planck's Quantum hypothesis.
- c) Derive MB energy distribution law
- d) Differentiate between Avalanche breakdown and Zener breakdown.

Q.3. Attempt the following (any 3) (4 marks each) 12 Marks

- a) Write down the condition for most probable distribution in B-E Statistics.
- b) Derive an expression for Plank's radiation law in terms of frequency of radiation.
- c) Explain the construction and working of LED.
- d) Explain Macrostate and Microstate .

Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh), Dist.Amravati
B.Sc. Part-III Sem-VI (S-2024) Unit Test Examination (Unit II, III and IV)
BOTANY
(Molecular Biology and Biotechnology)

Time:- 1 Hour

Max Marks:- 30

Note:- All question are compulsory.

1 A) Fill in the blanks :(2Marks)

- 1) Synthesis of mRNA from DNA is called _____
- 2) Poly-A-Tail is present on _____ end of mRNA
- 3) In protein two amino acids are linked to together by _____ bond.
- 4) Lac-Operon was proposed by _____

B) Multiple choice questions: (2 Marks)

- 1) Which of the following are types of RNA
 - a) mRNA
 - b) rRNA
 - c) tRNA
 - d) All of the above
- 2) Process of removal of introns is called
 - a) Splicing
 - b) Poly adenylation
 - c) Capping
 - d) Tagging
- 3) Synthesis of proteins from mRNA and mRNA from DNA, this process is called
 - a) Translation
 - b) Transcription
 - c) Central Dogma
 - d) Replication
- 4) Coding sequences for protein in DNA are
 - a) Intron
 - b) Exon
 - c) Cistron
 - d) Extron

2) Answer in one sentence: (2 Marks Each)

- a) Which is initiation Codon?
- b) What is Central Dogma?

3) Explain in detail (4 Marks Each)

- a) Britton Davidson Model
- b) Secondary and tertiary structure of protein
- c) Protein sorting

OR

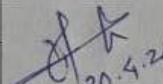
- d) Lac operon
- e) Mechanism of protein folding
- f) Protein trafficking

4) Write shorts notes on (4 Marks Each)

- a) Restriction endonucleases
 - b) cDNA library.
 - c) Electroporation
- OR
- d) Cloning vector-Plasmid
 - e) PCR
 - f) Agrobacterium mediated gene transfer

All The Best

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar					
COLLEGE UNIT TEST EXAMINATION					
Class:- B SC III Sem. -VI			Subject: Botany		
Date: 20 APR. 2024		Name of Invigilator:			
SrNo	Name	Mob No	Subject Group	Attendance	Remark
1.	Aarati Nandkishor Mokalekar	9022544467	BOT,CHE,ZOO	A.N.mokalekar	
2.	Adarsh Sanjayrao Pande	8788827561	BOT,CHE,ZOO		
3.	Adeeba Anam Ikramuddin .	8767330732	BOT,CHE,ZOO	Adileh	
4.	Aditya Kishor Pawar	7276179893	BOT,CHE,ZOO		
5.	Aniket Rupraoji Chawale	8484906695	BOT,CHE,ZOO		
6.	Aniket Sambhaji Meshram	7620634554	BOT,CHE,ZOO	Aniket	
7.	Anisha Vijay Deshmukh	7219426302	BOT,CHE,ZOO		
8.	Ankush Maroti Jadhao	7887551712	BOT,CHE,ZOO	Ankush	
9.	Anushri Gajanan Rohankar	8080036192	BOT,CHE,ZOO		
10.	Ashwini Dhanraj Tirmare	8080781155	BOT,CHE,ZOO	Ashwini	
11.	Ashwini Ravindra Wankhade	9021447813	BOT,CHE,ZOO		
12.	Ayan Naimi Khan	8999109007	BOT,CHE,ZOO	Ayan	
13.	Bhushan Yogeshwar Chawale	7741881082	BOT,CHE,ZOO	Bhushan	
14.	Disha Vijay Khobragade	8600974873	BOT,CHE,ZOO	D.V.khobragade	
15.	Hassan Ahmad Rizwanullah Khan	7378770106	BOT,CHE,ZOO		
16.	Jayshri Shamraoji Solanke	8830362662	BOT,CHE,ZOO	J.S.solanke.	
17.	Jyotsna Gajanan Laybar	8766583227	BOT,CHE,ZOO	Jyotsna	
18.	Leena Ganesh Ghodeswar	9359781899	BOT,CHE,ZOO	Leena	
19.	Mohini Sunil Makode	9607322428	BOT,CHE,ZOO	Makode	
20.	Nayana Dadarao Gopnarayan	9322016781	BOT,CHE,ZOO	Nayana	
21.	Pallavi Vilas Khune	7498633524	BOT,CHE,ZOO	P.V.Khune	
22.	Prajakta Pramod Inzalkar	9579443490	BOT,CHE,ZOO	Prajakta	
23.	Price Arvind Nandagawali	9049940702	BOT,CHE,ZOO	Price	
24.	Reva Mahendra Gedam	9579702968	BOT,CHE,ZOO	Reva	
25.	Rohini Jagdish Bahurupi	9561260635	BOT,CHE,ZOO		
26.	Sakshi Shyam Bavankule	8857067162	BOT,CHE,ZOO		
27.	Sanika Sahadev Lute	7972617222	BOT,CHE,ZOO	Sanika	
28.	Sayyed Maaz Misbahuddin	8010362849	BOT,CHE,ZOO	Maaz	
29.	Shraddha Rajkumar Dhage	9699402219	BOT,CHE,ZOO	S.R.Dhage	
30.	Sneha Manohar Satpaise	9923426132	BOT,CHE,ZOO	S.M.satpaise.	
31.	Vaishnavi Anil More	9356602820	BOT,CHE,ZOO	Vaishnavi	
32.	Vaishnavi Rajendra Ghawat	9689957499	BOT,CHE,ZOO	Vaishnavi	
33.	Yogini Lileshwar Mate	9209073836	BOT,CHE,ZOO	Yogini	
34.	Zuberka Gaffarkha Pathan	8263997228	BOT,CHE,ZOO	Zuberka	
35.					
Total No. Students on Roll			Mr.S.Y. Hisekule	Exam Coordinator	
No. of Students Present			 20.4.24		
No. of Students Absent					

Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh),
B.Sc. Part-II Sem-IV (S-2024) Unit Test Examination (Unit I, II and III)
BOTANY
 (Cell Biology, Genetics and Plant Breeding)

Time:- 1 and half hour

Max Marks:- 40

Note:- All question are compulsory.

Q1. Multiple Choice Questions (MCQ):

10 M

1. Cell - wall is
 - a. Permeable
 - b. Semi-permeable
 - c. Selectively permeable
 - d. Impermeable
2. Two cells are connected with the help of
 - a. Cell wall
 - b. Plasma membrane
 - c. Plasmodesmata
 - d. None of these
3. Prokaryotic cell lacks
 - a. Nuclear membrane
 - b. Nucleolus
 - c. Membrane bound organelles
 - d. All of the above
4. Cell membrane consist of
 - a. Protein double layer
 - b. Phospholipid Proteins
 - c. Phosphoproteins
 - d. Glycoproteins
5. The theories explain that plasma membrane is selectively permeable
 - a. Unit membrane theory
 - b. Cascade theory
 - c. Sandwich theory
 - d. Fluid mosaic theory
6. 70s ribosomes are present in
 - a. Prokaryotes
 - b. Eukaryotes
 - c. In both
 - d. Absent in both
7. DNA replication takes place in
 - a. S phase
 - b. G1 phase
 - c. G2 phase
 - d. Mitosis
8. Homologous chromosomes paired during
 - a. Leptotene
 - b. Diplotene
 - c. Zygotene
 - d. Meiosis II
9. The chromosome having satellite is known as
 - a. Autosome
 - b. Allosomes
 - c. Sat- Chromosomes
 - d. Sex- Chromosome
10. The centromere located near the centre of chromosome is called as
 - a. Metacentric
 - b. Telocentric
 - c. Submetacentric
 - d. Acrocentric

Q2. Explain

- a. Fluid mosaic model and functions of Plasma membrane **07 M**
- b. Structure of nuclear pore complex **03 M**

OR

- a. Ultra structure and function of Chloroplast **07 M**
- b. Functions of cell wall **03 M**

Q3. Explain

- a. Describe the mitotic cell division and comment on its significance **07 M**
- b. Structure of Mitochondria **03 M**

OR

- a. Structure and function of endoplasmic reticulum **07 M**
- b. Cell cycle **03M**

Q4. Explain

- a. The ultrastructure of primary constriction and centromere. **07 M**
- b. Translocation **03M**

OR

- a. Polyploidy and the characteristics of polyploids **07 M**
- b. Functions of heterochromatin **03 M**

All The Best

Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

COLLEGE UNIT TEST EXAMINATION					
Class:- B SC II SEM. -IV			Subject: Botany		
Date: 29 Apr. 2024			Name of Invigilator:		
Roll No.	Name	Mob No	Subject Group	Attendance	Remark
1.	Achal Ashok Pachpor	7558554839	BOT,CHE,ZOO	<u>Trashpos</u>	
2.	Achal Vijay Agham	9373056177	BOT,CHE,ZOO		
3.	Aditi Sunil Diwekar	7620558309	BOT,CHE,ZOO		
4.	Akansha Baburao Waghade	8605065631	BOT,CHE,ZOO		
5.	Akash Vijay Deshmukh	7249365925	BOT,CHE,ZOO	<u>Akash Deshmukh</u>	
6.	Alfiya Firdos Firoz Zarina	9767166677	BOT,CHE,ZOO		
7.	Aziz Khan Faizan Khan	7507708059	BOT,CHE,ZOO		
8.	Darshana Vinod Bale	8767203364	BOT,CHE,ZOO	<u>DBale</u>	
9.	Ishwari Sharad Bhuse	7276132987	BOT,CHE,ZOO	<u>IBhuse</u>	
10.	Karan Dipakrao Gawai	9370835333	BOT,CHE,ZOO		
11.	Khansa Firdos Shiakh Nisar	8208123621	BOT,CHE,ZOO	<u>Khansa</u>	
12.	Khushi Ravindra Thakare	9322772292	BOT,CHE,ZOO	<u>Khakare</u>	
13.	Komal Mukund Tupatkar	8668535931	BOT,CHE,ZOO	<u>Komputatkar</u>	
14.	Lakshmi Vijayrao Raut	9834863190	BOT,CHE,ZOO		
15.	Mauli Sudhi Tayade	7499410131	BOT,CHE,ZOO	<u>MTayade</u>	
16.	Mohd Saad Mohd Salim	9420944452	BOT,CHE,ZOO		
17.	Mohd Shaikh Mohd Mujahid	8669839078	BOT,CHE,ZOO		
18.	Nividita Anil Pawar	9322638733	BOT,CHE,ZOO	<u>Nividita Pawar</u>	
19.	Pornima Gajanan Ugale	7298424249	BOT,CHE,ZOO	<u>Pornima Ugale</u>	
20.	Pragati Kailas Barde	9511615341	BOT,CHE,ZOO		
21.	Radhika Rajeshrao Deshmukh	8010116223	BOT,CHE,ZOO	<u>Radhika Deshmukh</u>	
22.	Reshma Shahid Khan	8830420589	BOT,CHE,ZOO	<u>Reshma Khan</u>	
23.	Reva Gajanan Khadse	9322295570	BOT,CHE,ZOO	<u>Reva Khadse</u>	
24.	Rutuja Milind Thakare	8010486091	BOT,CHE,ZOO	<u>Rutakarne</u>	
25.	Sakshi Sudhakar Dandge	9322940261	BOT,CHE,ZOO	<u>Sakshi Dandge</u>	
26.	Samiksha Pramod Chore	9657662369	BOT,CHE,ZOO	<u>Samiksha Chore</u>	
27.	Sanket Meghraj Wankhade	8261858412	BOT,CHE,ZOO	<u>Sanket Wankhade</u>	
28.	Shaikh Yunus Mohd Awez	9767461282	BOT,CHE,ZOO		
29.	Shreya Anil Khandar	7709619771	BOT,CHE,ZOO	<u>Shreya Khandar</u>	
30.	Sneha Pravin Sonone	9665778130	BOT,CHE,ZOO	<u>Sneha Sonone</u>	
31.	Snehal Chandrashekar Dhulandar	9158743076	BOT,CHE,ZOO	<u>Snehal Dhulandar</u>	
32.	Vaishnavi Avinash Bhojar	7666057138	BOT,CHE,ZOO		
33.	Vaishnavi Sudhakar Gilabe	9923578822	BOT,CHE,ZOO	<u>Vaishnavi Gilabe</u>	
34.	Yash Anilrao Tayade	9373436736	BOT,CHE,ZOO	<u>Yash Tayade</u>	
35.					
Total No. Students on Roll			Invigilators Sign	Exam Coordinator	
No. of Students Present					

Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh), Dist. Amravati

B.Sc. Part-I Sem-II(S-2024) Unit Test Examination (Unit I, II and III)

BOTANY

(Molecular Biology and Biotechnology)

Time:- 1 and half hour

Max Marks:- 40

Note:- All question are compulsory.

Q.1 Multiple Choice Questions (MCQ)

10 M

1. The thalloid plant body is present in
a) *Marchantia* b) *Funaria* c) *Sphagnum* d) *Salvia*
2. Which pteridophyte is commonly called as horse tail?
a) Club Moss b) Fern c) *Equisetum* d) *Lycopodium*
3. In *Pinus*, pollination is
a) anemophilous b) Hydrophilous c) Zoophilous d) Cheriopterous
4. In *Marchantia* female sex organ borne on the specialized structure
a) Antheridiophore b) Archegoniophore c) Rhizophore d) Elatophore
5. Spore mother cells in *Marchantia* are
a) Haploid b) Diploid c) Triploid d) Tetraploid
6. The first vascular plant belongs to
a) Thallophyta b) Pteridophyta c) Bryophyta d) None of these
7. Spore producing Organ in *Marsilea*
a) Capsule b) strobilus c) Tubers d) sporocarp
8. *Pinus* belongs to family
a) Gnetaceae b) Pinaceae c) Cordaitaceae d) Pityaceae
9. In *Gnetum*, numbers of ovules are
a) Many b) zero c) Two d) three
10. Vallecular canal in *Equisetum* are present in
a) Pith b) Xylem c) Phloem d) cortex

Q.2. Explain –

- a) The morphological and internal structure of the thallus of *Marchantia*. 07M
 - b) Affinities of Bryophytes with Algae 03M
- OR
- c) Structure of antheridial and archegonial branch in *Funaria* 07M
 - d) Economic importance of Bryophytes. 03M

Q.3. Explain –

- e) Internal structure of aerial stem of *Equisetum*. 07M
 - f) Economic importance of Pteridophytes. 03M
- OR
- g) Internal structure of the sporocarp in *Marsilea*. 07M
 - h) T.S. of rhizome of *Marsilea*. 03M

Q.4. Explain –

- i) Life cycle of *Gnetum* and its affinities with angiosperms 07M
 - j) Male cone in *Pinus* 03M
- OR
- k) Primary Structure and secondary Growth in *Pinus* stem 07M
 - l) Economic importance of Gymnosperms 03M

All The Best

subject : Botany
 Time : 12:20 to 01:20 B.Sc-I ; Sem - I
 Date : 23/04/2024

Attendance

Sr No.	Name of students	Signature
1	Pallavi Ramavijay Gotane	<u>Pallavi</u>
2	Samiksha Gajanan Dewkar	<u>Samiksha</u>
3	Achal Babasaheb Shelone	<u>Achelone</u>
4	Nandini Natendra Masarkat	<u>Nandini</u>
5	Suzabhi Rajendra. Sahare.	<u>Suzabhi</u>
6	Nandini Dnyaneshwar Deshmukh	<u>Nandini</u>
7	Nikhil devendra Masabde	<u>Nikhil</u>
8	Wamata santosh pawar	<u>Wamata</u>
9	Sonika Rambhari shele	<u>Sonika</u>
10	Aadesh Ravindra chaware	<u>Aadesh</u>
11	Aniket Jitendra Khadare	<u>Aniket</u>
12	Suroj Ambadar chaware	<u>Suroj</u>
13	Atibak Moor Sheikh Shufi	<u>Atibak</u>
14	Pallavi vasant Thakare	<u>Pallavi</u>
15	Mayuri Jayraj Lonare	<u>Mayuri</u>
16	Achal Hamsaji Patil	<u>Achal</u>
17	Tanvi Vivek Kanse	<u>Tanvi</u>
18	Simran Pralhadrao Kanse	<u>Simran</u>
19	Rutuja S. Vaidya	<u>Rutuja</u>
20	Jayashri Vinod Ganvir	<u>Jayashri</u>
21	Sakshi Anil Rathod	<u>Sakshi</u>
22	Aditi Ashish Tadhas	<u>Aditi</u>
23	Sneha Gajanan Chinchulkar	<u>Sneha</u>
24	Radhika B. Kanse	<u>Radhika</u>
25	Pooja Ashok Sontakke	<u>Pooja</u>
26	Swati Ashish Tadhas	<u>Swati</u>
27	Katcen Raju Ganvit	<u>Katcen</u>
28		



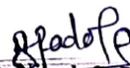
INTERNAL ASSESSMENT (SAMPLE)



Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part I Sem II Summer 2024 Department of Chemistry Internal Marks Record					
Sr No.	Roll No	Name of Student	Unit	SEM	Total
			Test		
1	23AB113489	AAKANSHA S. CHAVHAN	07	10	17 ✓
2	23AB113491	ACHAL BABARAO SHELARE	08	10	18 ✓
3	23AB113492	ACHAL HANSRAJ PATIL	05	10	15 ✓
4	23AB113493	ADESH RAVINDRA CHAWARE	05	10	15 ✓
5	23AB113495	ADITI ASHISH JADHAO	08	10	18 ✓
6	23AB113496	AKANSHA VITTHAL SAKHARKAR	10	10	20 ✓
7	23AB113498	ANIKET JITENDRA KHADSE	10	10	20 ✓
8	23AB113502	ATIBAH NOOR SHEIKH SHAFI	10	10	20 ✓
9	23AB113508	DEVANSHU BANDUJI BALAPURE	07	10	17 ✓
10	23AB113510	DHIRAJ HARDAM BHOSALE	05	10	15 ✓
11	23AB113519 1	JAYASHRI VINOD GANVIR	08	10	18 ✓
12	23AB113521	KARAN RAJU GANVIR	08	10	18 ✓
13	23AB113522	KARTIK MANGESH GONDANE	07	10	17 ✓
14	23AB113525	KUNAL DEVGIR GIRI	05	10	15 ✓
15	23AB113527	MAYURI JAYRAJ LONARE	06	10	16 ✓
16	23AB113528	MAYURI PRAMOD UIKE	08	10	18 ✓
17	23AB113530	MOHD ADNAN ZAKI MOHD S. SHEIKH	05	10	15 ✓
18	23AB113531	MOHD A. MOHD Y. MOTLANI	05	10	15 ✓
19	23AB113532	NAMRATA SANTOSH PAWAR	10	10	20 ✓
20	23AB113533	NANDINI AVADHUT CHAVHAN	10	10	20 ✓
21	23AB113534	NANDINI D. DESHMUKH	10	10	20 ✓
22	23AB113535	NANDINI NARENDRA MAROTKAR	10	10	20 ✓
23	23AB113537	NAYANA SURESH WANKHADE	05	10	15 ✓
24	23AB113538	NIKHIL DEVENDRA MARABDE	10	10	20 ✓
25	23AB113539	PALLAVI RAMVIJAY GOFANE	10	10	20 ✓
26	23AB113540	PALLAVI VASANT THAKARE	07	10	17 ✓
27	23AB113541	PAYAL NAGORAO URKADE	08	10	18 ✓
28	23AB113542	POOJA ASHOK SONTAKKE	08	10	18 ✓
29	23AB113551	RADHIKA B. KANSE	05	10	15 ✓

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part I Sem II Summer 2024 Department of Chemistry Internal Marks Record						
Sr No.	Roll No	Name of Student	Unit	SEM	Total	
			Test			
NF	30	23AB113552	RAHUL RAMESH MAROTKAR	05	10	15
NF	31	23AB113553	ROHINI SUMESH KANSE	05	10	15
	32	23AB113554	RUDRESH GAJANAN MESHARAM	05	10	15 ✓
	33	23AB113555	RUTUJA SHRIKRUSHNA VAIDYA	10	10	20 ✓
	34	23AB113557	SAKSHI ANIL RATHOD	10	10	20 ✓
	35	23AB113558	SAMIKSHA GAJANAN DEULKAR	10	10	20 ✓
	36	23AB113560	SANIKA RAMHARI SHETE	10	10	20 ✓
	37	23AB113562	SARIM AHMAD MATEEN KHAN	08	10	18 ✓
NF	38	23AB113563	SARVESH DIPAK PURAM	05	10	15
NF	39	23AB113564	SAURABH GAJANAN RAJKULE	05	10	15
	40	23AB113565	SAYYED AWAISE SAYYED ANEES	07	10	17 ✓
NF	41	23AB113567	SHRUTIKA SACHIDANAND ADHAU	05	10	15
	42	23AB113569	SIMRAN PRALHAD KANSE	08	10	18 ✓
	43	23AB113570	SNEHA GAJANAN CHINCHURKAR	10	10	20 ✓
	44	23AB113571	SURABHI RAJENDRA SAHARE	10	10	20 ✓
	45	23AB113572	SURAJ AMBADAS CHAWARE	10	10	20 ✓
	46	23AB113573	SWATI ASHISH JADHAO	07	10	17 ✓
	47	23AB113575	TANVI VIVEK KANSE	10	10	20 ✓
NF	48	23AB113577	VAIDEHI VINOD KOICHE	05	10	15
	49	23AB113578	VAISHNAVI VASUDEV RAUT	05	10	15 ✓
NF	50	23AB113580	VIVEK HIMMAT MESHARAM	05	10	15
	51	23AB113579	VISHAL DADARAO BHAGWE	07	10	17 ✓

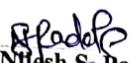
Date: 22/04/2024


Mr. Nilesh S. Padole
 Head of Department
 Department of Chemistry
 Vinayak Vidnyan Mahavidyalaya,
 Nandgaon Khandeshwar

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part II Sem IV Summer 2024 Department of Chemistry Internal Marks Record					
Sr No.	Roll No	Name of Student	Unit Test	SEM	Total
1	22AB113400	ACHAL ASHOK PACHPOR	10	10	20 ✓
2	22AB113401	ACHAL VIJAY AGHAM	05	10	15
3	22AB113402	ADITI SUNIL DIWEKAR	07	10	17
4	21AB113321	AHMAR WAQQAS MUHD RAFIQUE	05	10	15 ✓
5	22AB113404	AKANSHA BABURAO WAGHADE	05	10	15
6	22AB113405	AKASH VIJAY DESHMUKH	05	10	15 ✓
7	22AB113420	AZIZ KHAN FAIZAN KHAN	05	10	15 ✓
8	22AB113413	DARSHANA VINOD BALE	07	10	17 ✓
9	22AB113418	DIVYA NILESH GAWANDE	10	10	20 ✓
10	22AB113419	DIVYA SANTOSH RAUT	10	10	20 ✓
11	22AB113428	GITANJALI GAJANAN GUDADHE	10	10	20 ✓
12	22AB113432	ISHWARI SHARAD BHUSE	07	10	17 ✓
13	22AB113435	KARAN DIPAKRAO GAWAI	05	10	15 ✓
14	22AB113438	KHANSA FIRDOS SHIAKH NISAR	07	10	17 ✓
15	22AB113439	KHUSHI RAVINDRA THAKARE	10	10	20 ✓
16	22AB113441	KOMAL MUKUND TUPATKAR	10	10	20 ✓
17	22AB113445	MAULI SUDHI TAYADE	10	10	20 ✓
18	22AB113447	MOHD SAAD MOHD SALIM	05	10	15 ✓
19	22AB113450	MOHD SHAIKH MOHD MUJAHID	05	10	15
20	22AB113454	NIVIDITA ANIL PAWAR	10	10	20 ✓
21	22AB113456	OM DATTATRAY PURI	10	10	20 ✓
22	22AB113461	PORNIMA GAJANAN UGALE	10	10	20 ✓
23	22AB113463	PRAGATI KAILAS BARDE	05	10	15
24	22AB113471	RADHIKA RAJESHRAO DESHMUKH	07	10	17 ✓
25	22AB113473	RESHMA SHAHID KHAN	07	10	17 ✓
26	22AB113474	REVA GAJANAN KHADSE	10	10	20 ✓
27	22AB113476	RUTUJA MILIND THAKARE	10	10	20 ✓
28	22AB113478	SAHIL DIPAK GEDAM	07	10	17 ✓
29	22AB113483	SAKSHI SUDHAKAR DANDGE	10	10	20 ✓

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part II Sem IV Summer 2024 Department of Chemistry Internal Marks Record					
Sr No.	Roll No	Name of Student	Unit	SEM	Total
			Test		
30	22AB113484	SAMIKSHA PRAMOD CHORE	10	10	20 ✓
31	22AB113490	SANKET MEGHRAJ WANKHADE	05	10	15 ✓
32	22AB113491	SAURAV AMARDEEP MESHARAM	05	10	15 ✓
33	22AB113446	SHAIKH YUNUS MOHD AWEZ	05	10	15 ✓
34	22AB113494	SHANTANU PRAMOD THAKARE	05	10	15 ✓
35	22AB113495	SHRADDHA SANTOSH RAUT	10	10	20 ✓
36	22AB113496	SHREYA ANIL KHANDAR	10	10	20 ✓
37	22AB113498	SNEHA PRAVIN SONONE	10	10	20 ✓
38	22AB113499	SNEHAL C. DHULANDAR	10	10	20 ✓
39	22AB113503	SUJAL BHARAT BHAGAT	07	10	17 ✓
40	22AB113505	SUYOG VISHNU GADLING	05	10	15 ✓
41	22AB113514	VAISHNAVI AVINASH BHOYAR	10	10	20 ✓
42	22AB113517	VAISHNAVI SUDHAKAR GILABE	10	10	20 ✓
43	22AB113518	VANSH C. DANDGE	10	10	20 ✓
44	22AB113519	VEDANT VINODRAO GAYAKWAD	10	10	20 ✓
45	22AB113521	YASH ANILRAO TAYADE	10	10	20 ✓
46	22AB119988	LAXMI VIJAY RAUT	05	10	15 ✓
47					

Date: 22/04/2024


Mr. Nilesh S. Padole
 Head of Department
 Department of Chemistry
 Vinayak Vidnyan Mahavidyalaya,
 Nandgaon Khandeshwar

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part III Sem VI Summer 2024 Department of Chemistry Internal Marks Record						
Sr No.	Roll No	Name of Student	Unit Test	Seminar	Project	Total
1	21AB113318	AARATI NANDKISHOR MOKALEKAR	10	6	4	20
2	21AB113319	ADARSH SANJAYRAO PANDE	5	6	4	15
3	21AB113320	ADEEBA ANAM IKRAMUDDIN	5	6	4	15
4	21AB113269	ADITYA KISHOR PAWAR	5	6	4	15
5	21AB113327	ANIKET RUPRAOJI CHAWALE	5	6	4	15
6	21AB113328	ANIKET SAMBHAJI MESHARAM	10	6	4	20
7	21AB113329	ANISHA VIJAY DESHMUKH	10	6	4	20
8	21AB113330	ANKUSH MAROTI JADHAO	10	6	4	20
9	22AB310077	ANUSHRI GAJANAN ROHANKAR	5	6	4	15
10	21AB113332	ASHWINI DHANRAJ TIRMARE	10	6	4	20
11	21AB113333	ASHWINI RAVINDRA WANKHADE	5	6	4	15
12	21AB113334	AYAN NAIM KHAN	10	6	4	20
13	21AB113335	BHUSHAN YOGESHWAR CHAWALE	10	6	4	20
14	21AB113338	CHETAN GANESHRAO VAIDYA	10	6	4	20
15	21AB113339	DISHA VIJAY KHOBRAGADE	10	6	4	20
16	21AB113343	HASSAN AHMAD R. KHAN	5	6	4	15
17	21AB113344	JAYSHRI SHAMRAOJI SOLANKE	10	6	4	20
18	21AB113345	JYOTSNA GAJANAN LAYBAR	7	6	4	17
19	21AB113346	KOMAL RAJESH NARODE	10	6	4	20
20	21AB113348	LEENA GANESH GHODESWAR	10	6	4	20
21	21AB113351	MOHINI SUNIL MAKODE	10	6	4	20
22	21AB113352	NAYANA DADARAO GOPNARAYAN	10	6	4	20
23	21AB113353	PALLAVI VILAS KHUNE	09	6	4	19
24	21AB113356	PRAJKTA PRAMOD INZALKAR	10	6	4	20
25	21AB113360	PRATIK RAJENDRA SHENDRE	7	6	4	17
26	21AB113363	PRINCE ARVIND NANDAGAWALI	10	6	4	20
27	21AB113365	REVA MAHENDRA GEDAM	10	6	4	20
28	21AB113366	ROHINI JAGDISH BAHURUPI	10	6	4	20
29	21AB113370	SAKSHI HEMANTRAO SONONE	10	6	4	20

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar						
BSc Part III Sem VI Summer 2024						
Department of Chemistry						
Internal Marks Record						
Sr No.	Roll No	Name of Student	Unit Test	Seminar	Project	Total
30	21AB113371	SAKSHI SHYAM BAVANKULE	5	6	4	15
31	21AB113375	SANIKA SAHADEV LUTE	10	6	4	20
32	21AB113376	SAYYED MAAZ MISBAHUDDIN	7	6	4	17
33	21AB113381	SHRADDHA RAJKUMAR DHAGE	10	6	4	20
34	21AB113382	SHYAM NIRANJAN KANSE	7	6	4	17
35	21AB113383	SNEHA MANOHAR SATPAISE	7	6	4	17
36	21AB113386	VAISHNAVI ANIL MORE	10	6	4	20
37	21AB113387	VAISHNAVI RAJENDRA GHAWAT	10	6	4	20
38	21AB113389	VAISHNAVI RATNAKAR BELSARE	10	6	4	20
39	21AB113395	YOGINI LILESHWAR MATE	10	6	4	20
40	21AB113396	ZUBERKHA GAFFARKHA PATHAN	7	6	4	17
41	21AB113373	SAMEER DAMODHAR DHOMANE	5	6	4	15

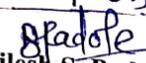
Date: 22/04/2024


 Mr. Nilesh S. Padole
 Head of Department
 Department of Chemistry
 Vinayak Vidnyan Mahavidyalaya,
 Nandgaon Khandeshwar

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part I Sem I Winter 2023 Department of Chemistry Internal Marks Record					
Sr No.	Roll No	Name of Student	Unit	SEM	Total
			Test		
1	23AB113489	AAKANSHA S. CHAVHAN	10	10	20
2	23AB113491	ACHAL BABARAO SHELARE	10	10	20
3	23AB113492	ACHAL HANSRAJ PATIL	10	10	20
4	23AB113493	ADESH RAVINDRA CHAWARE	10	05	15
5	23AB113495	ADITI ASHISH JADHAO	10	10	20
6	23AB113496	AKANSHA VITTHAL SAKHARKAR	10	10	20
7	23AB113498	ANIKET JITENDRA KHADSE	10	10	20
8	23AB113502	ATIBAH NOOR SHEIKH SHAFI	10	10	20
9	23AB113508	DEVANSHU BANDUJI BALAPURE	10	05	15
10	23AB113510	DHIRAJ HARDAM BHOSALE	10	05	15
11	23AB113519 1	JAYASHRI VINOD GANVIR	10	10	20
12	23AB113521	KARAN RAJU GANVIR	10	05	15
13	23AB113522	KARTIK MANGESH GONDANE	10	05	15
14	23AB113525	KUNAL DEVGIR GIRI	10	05	15
15	23AB113527	MAYURI JAYRAJ LONARE	10	10	20
16	23AB113528	MAYURI PRAMOD UIKE	10	10	20
17	23AB113530	MOHD ADNAN ZAKI MOHD S. SHEIKH	10	05	15
18	23AB113531	MOHD A. MOHD Y. MOTLANI	10	05	15
19	23AB113532	NAMRATA SANTOSH PAWAR	10	10	20
20	23AB113533	NANDINI AVADHUT CHAVHAN	10	10	20
21	23AB113534	NANDINI D. DESHMUKH	10	10	20
22	23AB113535	NANDINI NARENDRA MAROTKAR	10	10	20
23	23AB113537	NAYANA SURESH WANKHADE	10	05	15
24	23AB113538	NIKHIL DEVENDRA MARABDE	10	10	20
25	23AB113539	PALLAVI RAMVIJAY GOFANE	10	10	20
26	23AB113540	PALLAVI VASANT THAKARE	10	10	20
27	23AB113541	PAYAL NAGORAO URKADE	10	10	20
28	23AB113542	POOJA ASHOK SONTAKKE	10	10	20
29	23AB113551	RADHIKA B. KANSE	10	10	20

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part I Sem I Winter 2023 Department of Chemistry Internal Marks Record					
Sr No.	Roll No	Name of Student	Unit	SEM	Total
			Test		
30	23AB113552	RAHUL RAMESH MAROTKAR	10	05	15
31	23AB113553	ROHINI SUMESH KANSE	10	10	20
32	23AB113554	RUDRESH GAJANAN MESHAM	10	07	17
33	23AB113555	RUTUJA SHRIKRUSHNA VAIDYA	10	10	20
34	23AB113557	SAKSHI ANIL RATHOD	10	10	20
35	23AB113558	SAMIKSHA GAJANAN DEULKAR	10	10	20
36	23AB113560	SANIKA RAMHARI SHETE	10	10	20
37	23AB113562	SARIM AHMAD MATEEN KHAN	10	07	17
38	23AB113563	SARVESH DIPAK PURAM	10	05	15
39	23AB113564	SAURABH GAJANAN RAJKULE	10	05	15
40	23AB113565	SAYYED AWAISE SAYYED ANEES	10	07	17
41	23AB113567	SHRUTIKA SACHIDANAND ADHAU	10	05	15
42	23AB113569	SIMRAN PRALHAD KANSE	10	10	20
43	23AB113570	SNEHA GAJANAN CHINCHURKAR	10	10	20
44	23AB113571	SURABHI RAJENDRA SAHARE	10	10	20
45	23AB113572	SURAJ AMBADAS CHAWARE	10	07	17
46	23AB113573	SWATI ASHISH JADHAO	10	10	20
47	23AB113575	TANVI VIVEK KANSE	10	10	20
48	23AB113577	VAIDEHI VINOD KOICHE	10	05	15
49	23AB113578	VAISHNAVI VASUDEV RAUT	10	10	20
50	23AB113580	VIVEK HIMMAT MESHAM	10	05	15
51	23AB113579	VISHAL DADARAO BHAGWE	10	07	17
52	23AB113529	Mohd Sahil Abdul Galazid	10	05	15

Date: 19/12/2023


 Mr. Nilesh S. Padole
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 Department of Chemistry
 Vinayak Vidnyan Mahavidyalaya,
 Nandgaon Khandeshwar

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part II Sem III Winter 2023 Department of Chemistry Internal Marks Record					
Sr No.	Roll No	Name of Student	Unit	SEM	Total
			Test		
1	22AB113400	ACHAL ASHOK PACHPOR	10	10	20
2	22AB113401	ACHAL VIJAY AGHAM	10	10	20
3	22AB113402	ADITI SUNIL DIWEKAR	10	07	17
4	21AB113321	AHMAR WAQQAS MUHD RAFIQUE	10	05	15
5	22AB113404	AKANSHA BABURAO WAGHADE	10	10	20
6	22AB113405	AKASH VIJAY DESHMUKH	10	07	17
7	22AB113420	AZIZ KHAN FAIZAN KHAN	10	05	15
8	22AB113413	DARSHANA VINOD BALE	10	07	17
9	22AB113418	DIVYA NILESH GAWANDE	10	10	20
10	22AB113419	DIVYA SANTOSH RAUT	10	10	20
11	22AB113428	GITANJALI GAJANAN GUDADHE	10	10	20
12	22AB113432	ISHWARI SHARAD BHUSE	10	07	17
13	22AB113435	KARAN DIPAKRAO GAWAI	10	10	20
14	22AB113438	KHANSA FIRDOS SHIAKH NISAR	10	10	20
15	22AB113439	KHUSHI RAVINDRA THAKARE	10	10	20
16	22AB113441	KOMAL MUKUND TUPATKAR	10	10	20
17	22AB113445	MAULI SUDHI TAYADE	10	10	20
18	22AB113447	MOHD SAAD MOHD SALIM	10	10	20
19	22AB113450	MOHD SHAIKH MOHD MUJAHID	10	05	15
20	22AB113454	NIVIDITA ANIL PAWAR	10	10	20
21	22AB113456	OM DATTATRAY PURI	10	10	20
22	22AB113461	PORNIMA GAJANAN UGALE	10	05	15
23	22AB113463	PRAGATI KAILAS BARDE	10	05	15
24	22AB113471	RADHIKA RAJESHRAO DESHMUKH	10	10	20
25	22AB113473	RESHMA SHAHID KHAN	10	07	17
26	22AB113474	REVA GAJANAN KHADSE	10	10	20
27	22AB113476	RUTUJA MILIND THAKARE	10	10	20
28	22AB113478	SAHIL DIPAK GEDAM	10	05	15
29	22AB113483	SAKSHI SUDHAKAR DANDGE	10	10	20

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part II Sem III Winter 2023 Department of Chemistry Internal Marks Record					
Sr No.	Roll No	Name of Student	Unit Test	SEM	Total
30	22AB113484	SAMIKSHA PRAMOD CHORE	10	10	20
31	22AB113490	SANKET MEGHRAJ WANKHADE	10	10	20
32	22AB113491	SAURAV AMARDEEP MESHARAM	10	05	15
33	22AB113446	SHAIKH YUNUS MOHD AWEZ	10	05	15
34	22AB113494	SHANTANU PRAMOD THAKARE	10	10	20
35	22AB113495	SHRADDHA SANTOSH RAUT	10	10	20
36	22AB113496	SHREYA ANIL KHANDAR	10	10	20
37	22AB113498	SNEHA PRAVIN SONONE	10	10	20
38	22AB113499	SNEHAL C. DHULANDAR	10	10	20
39	22AB113503	SUJAL BHARAT BHAGAT	10	07	17
40	22AB113505	SUYOG VISHNU GADLING	10	05	15
41	22AB113514	VAISHNAVI AVINASH BHOYAR	10	10	20
42	22AB113517	VAISHNAVI SUDHAKAR GILABE	10	10	20
43	22AB113518	VANSH C. DANDGE	10	10	20
44	22AB113519	VEDANT VINODRAO GAYAKWAD	10	10	20
45	22AB113521	YASH ANILRAO TAYADE	18	10	20
46	22AB113406	Alfiya Firdoz Firdoz Khan	10	07	17
47					

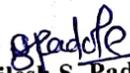
Date: 19/12/2023


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 Department of Chemistry
 Vinayak Vidnyan Mahavidyalaya,
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Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar BSc Part III Sem V Winter 2023 Department of Chemistry Internal Marks Record						
Sr No.	Roll No	Name of Student	Unit	Seminar	Project	Total
			Test			
1	21AB113318	AARATI NANDKISHOR MOKALEKAR	10	6	4	20
2	21AB113319	ADARSH SANJAYRAO PANDE	07	6	4	17
3	21AB113320	ADEEBA ANAM IKRAMUDDIN	07	6	4	17
4	21AB113269	ADITYA KISHOR PAWAR	05	6	4	15
5	21AB113327	ANIKET RUPRAOJI CHAWALE	05	6	4	15
6	21AB113328	ANIKET SAMBHAJI MESHRAM	10	6	4	20
7	21AB113329	ANISHA VIJAY DESHMUKH	10	6	4	20
8	21AB113330	ANKUSH MAROTI JADHAO	10	6	4	20
9	22AB310077	ANUSHRI GAJANAN ROHANKAR	07	6	4	17
10	21AB113332	ASHWINI DHANRAJ TIRMARE	10	6	4	20
11	21AB113333	ASHWINI RAVINDRA WANKHADE	07	6	4	17
12	21AB113334	AYAN NAIM KHAN	07	6	4	17
13	21AB113335	BHUSHAN YOGESHWAR CHAWALE	05	6	4	15
14	21AB113338	CHE TAN GANESHRAO VAIDYA	10	6	4	20
15	21AB113339	DISHA VIJAY KHOBRA GADE	10	6	4	20
16	21AB113343	HASSAN AHMAD R. KHAN	05	6	4	15
17	21AB113344	JAYSHRI SHAMRAOJI SOLANKE	07	6	4	17
18	21AB113345	JYOTSNA GAJANAN LAYBAR	05	6	4	15
19	21AB113346	KOMAL RAJESH NARODE	10	6	4	20
20	21AB113348	LEENA GANESH GHODESWAR	10	6	4	20
21	21AB113351	MOHINI SUNIL MAKODE	10	6	4	20
22	21AB113352	NAYANA DADARAO GOPNARAYAN	10	6	4	20
23	21AB113353	PALLAVI VILAS KHUNE	10	6	4	20
24	21AB113356	PRAJKTA PRAMOD INZALKAR	10	6	4	20
25	21AB113360	PRATIK RAJENDRA SHENDRE	07	6	4	17
26	21AB113363	PRINCE ARVIND NANDAGAWALI	07	6	4	17
27	21AB113365	REVA MAHENDRA GEDAM	10	6	4	20
28	21AB113366	ROHINI JAGDISH BAHURUPI	05	6	4	15
29	21AB113370	SAKSHI HEMANTRAO SONONE	10	6	4	20

Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar						
BSc Part III Sem V Winter 2023						
Department of Chemistry						
Internal Marks Record						
Sr No.	Roll No	Name of Student	Unit	Seminar	Project	Total
			Test			
30	21AB113371	SAKSHI SHYAM BAVANKULE	05	6	4	15
31	21AB113375	SANIKA SAHADEV LUTE	07	6	4	17
32	21AB113376	SAYYED MAAZ MISBAHUDDIN	05	6	4	15
33	21AB113381	SHRADDHA RAJKUMAR DHAGE	10	6	4	20
34	21AB113382	SHYAM NIRANJAN KANSE	10	6	4	20
35	21AB113383	SNEHA MANOHAR SATPAISE	10	6	4	20
36	21AB113386	VAISHNAVI ANIL MORE	10	6	4	20
37	21AB113387	VAISHNAVI RAJENDRA GHAWAT	10	6	4	20
38	21AB113389	VAISHNAVI RATNAKAR BELSARE	10	6	4	20
39	21AB113395	YOGINI LILESHWAR MATE	10	6	4	20
40	21AB113396	ZUBERKHA GAFFARKHA PATHAN	07	6	4	17
41	21AB113373	SAMEER DAMODHAR DHOMANE	07	6	4	17

Date: 19/11/2023


 Mr. Nilesh S. Padole
 Head of Department
 Department of Chemistry
 Vinayak Vidnyan Mahavidyalaya,
 Nandgaon Khandeshwar

Vinayak Vidnyan Mahavidyalaya Nandaon Kh

Internal Mark Winter 2023

Zoology

BSc III; Semester V

Sr. No.	Roll. No.	Name of Student	Unit Test	Project	Assignment	Internal
1	21AB113318	Aarati Nandkishor Mokalekar	10	04	06	20
2	21AB113319	Adarsh Sanjayrao Pande	10	04	06	20
3	21AB113320	Adeeba Anam Ikramuddin	10	04	06	20
4	21AB113327	Aniket Rupraoji Chawale	10	04	06	20
5	21AB113328	Aniket Sambhaji Meshram	10	04	06	20
6	21AB113329	Anisha Vijay Deshmukh	10	04	06	20
7	21AB113330	Ankush Maroti Jadhao	10	04	06	20
8	21AB113332	Ashwini Dhanraj Tirmare	10	04	06	20
9	21AB113333	Ashwini Ravindra Wankhade	10	04	06	20
10	21AB113334	Ayan Naim Khan	10	04	06	20
11	21AB113335	Bhushan Yogeshwar Chawale	10	04	06	20
12	21AB113339	Disha Vijay Khobragade	10	04	06	20
13	21AB113343	Hassan Ahmad Rizwanullah Khan	10	04	06	20
14	21AB113344	Jayshri Shamraoji Solanke	10	04	06	20
15	21AB113345	Jyotsna Gajanan Laybar	10	04	06	20
16	21AB113348	Leena Ganesh Ghodeswar	10	04	06	20
17	21AB113351	Mohini Sunil Makode	10	04	06	20
18	21AB113352	Nayana Dadarao Gopnarayan	10	04	06	20
19	21AB113353	Pallavi Vilas Khune	10	04	06	20
20	21AB113356	Prajakta Pramod Inzalkar	10	04	06	20
21	21AB113363	Prince Arvind Nandagawali	10	04	06	20
22	21AB113365	Reva Mahendra Gedam	10	04	06	20
23	21AB113366	Rohini Jagdish Bahurupi	10	04	06	20
24	21AB113371	Sakshi Shyam	10	04	06	20

		Bavankule				
25	21AB113375	Sanika Sahadev Lute	10	04	06	20
26	21AB113376	Sayyad Mazz Misbahuddin	10	04	06	20
27	21AB113381	Shraddha Rajkumar Dhage	10	04	06	20
28	21AB113383	Sneha Manohar Satpaise	10	04	06	20
29	21AB113386	Vaishnavi Anil More	10	04	06	20
30	21AB113387	Vaishnavi Rajendra Ghawar	10	04	06	20
31	21AB113395	Yogini Lileshwar Mate	10	04	06	20
32	21AB113396	Zuberkha Gaffarkha Pathan	10	04	06	20
33	21AB113269	Aditya Kishor Pawar	10	04	06	20
34	22AB310077	Anushri Gajanan Rohankar	10	04	06	20

P. Mahalle
Head

Department of Zoology
Head
Dept. of Zoology
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandgaon Kh

Internal Mark Winter 2023

Zoology

BSc II; Semester III

Sr. No.	Roll. No.	Name of Student	Module point written in detail	Seminar on Module	Seminar presentation	Seminar viva	SEM
1	22AB113400	Achal Ashok Pachpor	10	05	03	02	20
2	22AB113401	Achal Vijay Agham	10	05	03	02	20
3	22AB113402	Aditi Sunil Diwekar	10	05	03	02	20
4	22AB113404	Akansha Baburao Waghade	10	05	03	02	20
5	22AB113405	Akash Vijay Deshmukh	10	05	03	02	20
6	22AB113406	Alfiya Firdos Firoz Khan	10	05	03	02	20
7	22AB113413	Darshana Vinod Bale	10	05	03	02	20
8	22AB113420	Faizan Khan Aziz Khan	10	05	03	02	20
9	22AB113432	Ishwari Sharad Bhuse	10	05	03	02	20
10	22AB113435	Karan Dipakrao Gawai	10	05	03	02	20
11	22AB113438	Khansa Firdos Shaikh Nisar	10	05	03	02	20
12	22AB113439	Khushi Ravindra Thakare	10	05	03	02	20
13	22AB113441	Komal Mukund Tupatkar	10	05	03	02	20
14	22AB113445	Mauli Sudhir Tayade	10	05	03	02	20
15	22AB113446	Mohd Awez Shaikh Yunus	10	05	02	01	18
16	22AB113447	Mohd Saad Mohd Salim	10	05	03	02	20
17	22AB113450	Mohd Mujahid Mohd Shaikh	10	05	02	01	18
18	22AB113454	Nivedita Anil Pawar	10	05	03	02	20
19	22AB113461	Pornima Gajanan Ugale	10	05	03	02	20
20	22AB113463	Pragati Kailas Barde	10	05	03	02	20
21	22AB113471	Radhika Rajeshrao Deshmukh	10	05	03	02	20
22	22AB113473	Reshma Shahid Khan Pathan	10	05	03	02	20

23	22AB113474	Reva Gajanan Khadse	10	05	03	02	20
24	22AB113476	Rutuja Milind Thakare	10	05	03	02	20
25	22AB113483	Sakshi Sudhakar Dandge	10	05	03	02	20
26	22AB113484	Samiksha Pramod Chore	10	05	03	02	20
27	22AB113490	Sanket Meghraj Wankhade	10	05	03	02	20
28	22AB113496	Shreya Anil Khandar	10	05	03	02	20
29	22AB113498	Sneha Pravin Sonone	10	05	03	02	20
30	22AB113499	Snehal C.Dhulldhar	10	05	03	02	20
31	22AB113514	Vaishnavi Avinash Bhoyar	10	05	03	02	20
32	22AB113517	Vaishnavi Sudhakar Gilabe	10	05	03	02	20
33	22AB113521	Yash Anilrao Tayade	10	05	03	02	20
34	22AB119988	Lakshmi Vijayrao Raut	10	05	02	01	18

Bomahalle

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Vinayak Vidnyan Mahavidyalaya Nandaon Kh

Internal Mark Winter 2023

Zoology

BSc I; Semester I

Sr. No.	Roll. No.	Name of Student	Module point written in detail	Seminar on Modulle	Seminar presentation	Seminar viva	SEM
1	23AB113489	Aakansha Siddharth Chavhan	10	05	03	02	20
2	23AB113491	Achal Babarao Shelare	10	05	03	02	20
3	23AB113492	Achal Hansraj Patil	10	05	03	02	20
4	23AB113493	Adesh Ravindra Chaware	10	05	03	02	20
5	23AB113495	Aditi Ashish Jadhao	10	05	03	02	20
6	23AB113498	Aniket Jitendra Khadase	10	05	03	02	20
7	23AB113502	Atibah Noor Sheikh Shafi	10	05	03	02	20
8	23AB113508	Devanshu Banduji Balapure	10	05	03	02	20
9	23AB113510	Dhiraj Hardam Bhosale	10	05	03	02	20
10	23AB113519	Jayashri Vinod Ganvir	10	05	03	02	20
11	23AB113521	Karan Raju Ganvir	10	05	03	02	20
12	23AB113522	Kartik Mangesh Gondane	10	05	03	02	20
13	23AB113525	Kunal Devgir Giri	10	02	02	01	15
14	23AB113527	Mayuri Jayraj Lonare	10	05	03	02	20
15	23AB113529	Mohammad Sahil Abdul Junaid	10	02	02	01	15
16	23AB113530	Mohd Adnan Zaki Mohd Shafique Sheikh	10	02	02	01	15
17	23AB113531	Mohd Altamash Mohd Yahya Motlani	10	05	02	01	20
18	23AB113532	Namrata Santosh Pawar	10	05	03	02	20
19	23AB113534	Nandini Dnyaneshwarrao Deshmukh	10	05	03	02	20

20	23AB113535	Nandini Narendra Marotkar	10	05	03	02	20
21	23AB113537	Nayana Suresh Wankhade	10	02	02	01	15
22	23AB113538	Nikhil Devendra Marabde	10	05	03	02	20
23	23AB113539	Pallavi Ramvijay Gofane	10	05	03	02	20
24	23AB113540	Pallavi Vasant Thakare	10	05	03	02	20
25	23AB113542	Pooja Ashok Sontakke	10	05	03	02	20
26	23AB113551	Radhika Bhagwant Kanse	10	05	03	02	20
27	23AB113552	Rahul Ramesh Marotkar	10	02	02	01	15
28	23AB113553	Rohini Sumesh Kanse	10	02	02	01	15
29	23AB113555	Rutuja Shrikrushna Vaidya	10	05	03	02	20
30	23AB113557	Sakshi Anil Rathod	10	05	03	02	20
31	23AB113558	Samiksha Gajanan Deulkar	10	05	03	02	20
32	23AB113560	Sanika Ramhari Shete	10	05	03	02	20
33	23AB113562	Sarim Ahmad Mateen Khan	10	05	03	02	20
34	23AB113563	Sarvesh Dipak Puram	10	02	02	01	15
35	23AB113564	Saurabh Gajanan Rajkule	10	02	02	01	15
36	23AB113565	Sayyed Awaise Sayyed Anees	10	05	03	02	20
37	23AB113567	Shrutika Sachidanand Adhau	10	02	02	01	15
38	23AB113569	Simran Pralhad Kanse	10	05	03	02	20
39	23AB113570	Sneha Gajanan Chinchulkar	10	05	03	02	20
40	23AB113571	Surabhi Rajendra Sahare	10	05	03	02	20
41	23AB113572	Suraj Ambadas Chaware	10	05	03	02	20
42	23AB113573	Swati Ashish Jadhao	10	05	03	02	20
43	23AB113575	Tanvi Vivek Kanse	10	05	03	02	20
44	23AB113577	Vaidehi Vinod Koche	10	02	02	01	15
45	23AB113578	Vaishnavi Vasudev Raut	10	05	03	02	20

46	23AB113579	Vishal Dadarao Bhagwe	10	05	03	02	20
47	23AB113580	Vivek Himmat Meshram	10	02	02	01	15

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Internal Mark Summer 2024

Zoology

BSc III; Semester VI

Sr. No.	Roll. No.	Name of Student	Unit Test	Project	Assignment	Internal
1	21AB113318	Aarati Nandkishor Mokalekar	10	04	06	20
2	21AB113319	Adarsh Sanjayrao Pande	10	04	06	20
3	21AB113320	Adeeba Anam Ikramuddin	10	04	06	20
4	21AB113328	Aniket Sambhaji Meshram	10	04	06	20
5	21AB113329	Anisha Vijay Deshmukh	10	04	06	20
6	21AB113330	Ankush Maroti Jadhao	10	04	06	20
7	21AB113332	Ashwini Dhanraj Tirmare	10	04	06	20
8	21AB113333	Ashwini Ravindra Wankhade	10	04	06	20
19	21AB113334	Ayan Naim Khan	10	04	06	20
10	21AB113335	Bhushan Yogeshwar Chawale	10	04	06	20
11	21AB113339	Disha Vijay Khobragade	10	04	06	20
12	21AB113343	Hassan Ahmad Rizwanullah Khan	08	04	06	18
13	21AB113344	Jayshri Shamraoji Solanke	10	04	06	20
14	21AB113345	Jyotsna Gajanan Laybar	10	04	06	20
15	21AB113348	Leena Ganesh Ghodeswar	10	04	06	20
16	21AB113351	Mohini Sunil Makode	10	04	06	20
17	21AB113352	Nayana Dadarao Gopnarayan	10	04	06	20
18	21AB113353	Pallavi Vilas Khune	10	04	06	20
19	21AB113356	Prajakta Pramod Inzalkar	10	04	06	20
20	21AB113363	Prince Arvind Nandagawali	10	04	06	20
21	21AB113365	Reva Mahendra Gedam	10	04	06	20
22	21AB113366	Rohini Jagdish Bahurupi	10	04	06	20
23	21AB113371	Sakshi Shyam Bavankule	08	04	06	18
24	21AB113375	Sanika Sahadev Lute	10	04	06	20

25	21AB113376	Sayyad Mazz Misbahuddin	10	04	06	20
26	21AB113381	Shraddha Rajkumar Dhage	10	04	06	20
27	21AB113383	Sneha Manohar Satpaise	10	04	06	20
28	21AB113386	Vaishnavi Anil More	10	04	06	20
29	21AB113387	Vaishnavi Rajendra Ghawat	10	04	06	20
30	21AB113395	Yogini Lileshwar Mate	10	04	06	20
31	21AB113396	Zuberkha Gaffarkha Pathan	10	04	06	20
32	21AB113269	Aditya Kishor Pawar	08	04	06	18
33	22AB310077	Anushri Gajanan Rohankar	08	04	06	18

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Department of Zoology
Dept. of Zoology
Vinayak Vidnyan Mahavidyalaya
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Vinayak Vidnyan Mahavidyalaya Nandaon Kh

Internal Mark Summer 2024

Zoology

BSc II; Semester IV

Sr. No.	Roll. No.	Name of Student	Module point written in detail	Seminar on Module	Seminar presentation	Seminar viva	SEM
1	22AB113400	Achal Ashok Pachpor	10	05	03	02	20
2	22AB113405	Akash Vijay Deshmukh	10	05	03	02	20
3	22AB113413	Darshana Vinod Bale	10	05	03	02	20
4	22AB113420	Faizan Khan Aziz Khan	10	05	02	01	18
5	22AB113432	Ishwari Sharad Bhuse	10	05	03	02	20
6	22AB113435	Karan Dipakrao Gawai	10	05	02	01	18
7	22AB113438	Khansa Firdos Shaikh Nisar	10	05	03	02	20
8	22AB113439	Khushi Ravindra Thakare	10	05	03	02	20
9	22AB113441	Komal Mukund Tupatkar	10	05	03	02	20
10	22AB113445	Mauli Sudhir Tayade	10	05	03	02	20
11	22AB113447	Mohd Saad Mohd Salim	10	05	02	01	18
12	22AB113454	Nivedita Anil Pawar	10	05	03	02	20
13	22AB113461	Pornima Gajanan Ugale	10	05	03	02	20
14	22AB113471	Radhika Rajeshrao Deshmukh	10	05	03	02	20
15	22AB113473	Reshma Shahid Khan Pathan	10	05	02	01	18
16	22AB113474	Reva Gajanan Khadse	10	05	03	02	20
17	22AB113476	Rutuja Milind Thakare	10	05	03	02	20
18	22AB113483	Sakshi Sudhakar Dandge	10	05	03	02	0
19	22AB113484	Samiksha Pramod Chore	10	05	03	02	20
20	22AB113490	Sanket Meghraj Wankhade	10	05	03	02	20
21	22AB113496	Shreya Anil Khandar	10	05	03	02	20
22	22AB113498	Sneha Pravin Sonone	10	05	03	02	20
23	22AB113499	Snehal C.Dhulldhar	10	05	03	02	20
24	22AB113514	Vaishnavi Avinash	10	05	03	02	20

		Bhoyar					
25	22AB113517	Vaishnavi Sudhakar Gilabe	10	05	03	02	20
26	22AB113521	Yash Anilrao Tayade	10	05	03	02	20
27	22AB119988	Lakshmi Vijayrao Raut	10	05	02	01	20

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Department of Zoology
Dept. of Zoology
Vinayak Vidnyan Mahavidyalaya
Nandgaon Kh.

Vinayak Vidnyan Mahavidyalaya Nandaon Kh

Internal Mark Summer 2024

Zoology

BSc I; Semester II

Sr. No.	Roll. No.	Name of Student	Module point written in detail	Seminar on Modulle	Seminar presentation	Seminar viva	SEM
1	23AB113489	Aakansha Siddharth Chavhan	10	05	03	02	20
2	23AB113491	Achal Babarao Shelare	10	05	03	02	20
3	23AB113492	Achal Hansraj Patil	10	05	03	02	20
4	23AB113493	Adesh Ravindra Chaware	10	05	03	02	20
5	23AB113495	Aditi Ashish Jadhao	10	05	03	02	20
6	23AB113498	Aniket Jitendra Khadase	10	05	03	02	20
7	23AB113502	Atibah Noor Sheikh Shafi	10	05	03	02	20
8	23AB113508	Devanshu Banduji Balapure	10	05	03	02	20
9	23AB113510	Dhiraj Hardam Bhosale	10	05	03	02	20
10	23AB113519	Jayashri Vinod Ganvir	10	05	03	02	20
11	23AB113521	Karan Raju Ganvir	10	05	03	02	20
12	23AB113522	Kartik Mangesh Gondane	10	05	03	02	20
13	23AB113525	Kunal Devgir Giri	10	05	02	01	18
14	23AB113527	Mayuri Jayraj Lonare	10	05	03	02	20
15	23AB113530	Mohd Adnan Zaki Mohd Shafique Sheikh	10	05	03	02	20
16	23AB113531	Mohd Altamash Mohd Yahya Motlani	10	05	03	02	20
17	23AB113532	Namrata Santosh Pawar	10	05	03	02	20
18	23AB113534	Nandini Dnyaneshwarrao Deshmukh	10	05	03	02	20
19	23AB113535	Nandini Narendra Marotkar	10	05	03	02	20

20	23AB113537	Nayana Suresh Wankhade	10	05	03	02	20
21	23AB113538	Nikhil Devendra Marabde	10	05	03	02	20
22	23AB113539	Pallavi Ramvijay Gofane	10	05	03	02	20
23	23AB113540	Pallavi Vasant Thakare	10	05	03	02	20
24	23AB113542	Pooja Ashok Sontakke	10	05	03	02	20
25	23AB113551	Radhika Bhagwant Kanse	10	05	03	02	20
26	23AB113555	Rutuja Shrikrushna Vaidya	10	05	03	02	20
27	23AB113557	Sakshi Anil Rathod	10	05	03	02	20
28	23AB113558	Samiksha Gajanan Deulkar	10	05	03	02	20
29	23AB113560	Sanika Ramhari Shete	10	05	03	02	20
30	23AB113562	Sarim Ahmad Mateen Khan	10	05	03	02	20
31	23AB113565	Sayyed Awaise Sayyed Anees	10	05	03	02	20
32	23AB113569	Simran Pralhad Kanse	10	05	03	02	20
33	23AB113570	Sneha Gajanan Chinchulkar	10	05	03	02	20
34	23AB113571	Surabhi Rajendra Sahare	10	05	03	02	20
35	23AB113572	Suraj Ambadas Chaware	10	05	03	02	20
36	23AB113573	Swati Ashish Jadhao	10	05	03	02	20
37	23AB113575	Tanvi Vivek Kanse	10	05	03	02	20
38	23AB113578	Vaishnavi Vasudev Raut	10	05	03	02	20
39	23AB113579	Vishal Dadarao Bhagwe	10	05	03	02	20

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