

**VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625234**  
**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09CT11	<b>Programme:</b>	B.Sc.,	<b>CIA:</b>	I
<b>Date:</b>	19.10.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	I
<b>Duration:</b>	2 Hours	<b>Year:</b>	I	<b>Max.Marks:</b>	50
<b>Course Title:</b>	<b>INVERTEBRATES - I</b>				

**SECTION – A (Remembering)**

- Answer **ALL** the Questions: **(10 X 1 = 10 Marks)**
- 1 The lack of notochord animal is called----- **CO1**  
a. Vertebrates      b. Invertebrates      c. Chordates      d. Birds
  - 2 Which one of the following animal is called slipper animalcule **CO1**  
a. Euglena      b. Volvox      c. Paramecium      d. Amoeba
  - 3 Which of the following synthetic drug is cure malaria? **CO1**  
a. Quinine      b. Daraprim      c. Chloroquine      d. All of these
  - 4 Canal system is the characteristic of **CO2**  
a. Sponges      b. Coelentrates      c. Both a and b      d. None of these
  - 5 Endoskeleton of sponge is ----- **CO2**  
a. Spicules      b. Conidoblast      c. Cilia      d. Trichocyst
  - 6 The key functions of canal system in sponge is----- **CO2**  
a. Respiration      d. Nutrition      c. Excretion      d. All of these
  - 7 Spicules has three rays is known as **CO2**  
a. Monaxon      d. Diaxon      c. Triaxon      d. Tetragon
  - 8 Protonephridia is a \_\_\_\_ **CO4**  
a. Excretory system      b. Digestive system      c. Circulatory system      d. Blood suckers
  - 9 Trochophore theory was proposed by **CO4**  
a. Hatschek      b. Lankester      c. Hanson      d. Hadzi
  - 10 First formed bilateria is **CO4**  
a. Hemichordate      b. Platyhelminthes      c. Mollusca      d. Arthropoda

**SECTION – B (Remembering)**

- Answer any **FIVE** Questions: **(5 X 2 = 10 Marks)**
- 11 Write any two general features of phylum protozoa **CO1**
  - 12 Give a short comment on the methods of protozoan locomotion **CO1**
  - 13 What are spicules? **CO2**
  - 14 Comment on gemmules. **CO2**
  - 15 Write any two significant characteristic features of phylum Porifera **CO2**
  - 16 Enlist the polyphyletic theory **CO4**
  - 17 What is flame cell? **CO4**

**SECTION – C (Understanding)**

- Answer any **THREE** Questions: **(3 X 6= 18 Marks)**
- 18 Write an account on *Entamoeba histolytica* and discuss its mode of action and causing diseases. **CO1**
  - 19 Give a brief account on the life cycle of *plasmodium*. **CO1**
  - 20 Enumerate the methods of reproduction of sponges **CO2**
  - 21 Explain the structure of *Fasciola hepatica*. **CO4**
  - 22 Briefly explain the general characters of Platyhelminthes **CO4**

**SECTION – D (Applying)**

- Answer any **ONE** Question: **(1X 12= 12 Marks)**
- 23 Write detailed account on the paramecium structure and its conjugation. **CO1**
  - 24 Give a detailed account on life cycle of Liver fluke. **CO4**





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**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09CT12	<b>Programme:</b>	B.Sc.	<b>CIA:</b>	I
<b>Date:</b>	22.10.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	I
<b>Duration:</b>	2 Hours	<b>Year:</b>	I	<b>Max.Marks:</b>	50
<b>Course Title:</b>	<b>INVERTEBRATES - II</b>				

**SECTION – A (Remembering)**

Answer **ALL** the Questions:

**(10 X 1 = 10 Marks)**

- 1 Annelids are \_\_\_\_ **CO1**  
a) Bilateral symmetry b) Asymmetry c) Radial symmetry d) none of these
- 2 Longitudinal and circular muscles are found in the body wall of \_\_\_\_ **CO1**  
a) Sponges b) Cnidarians c) Annelids d) None of these
- 3 Trocophore larva is found in \_\_\_\_ **CO1**  
a) Cnidarians b) Cockroach c) Annelids d) Sponges
- 4 Which class of annelids having bundles of setae? **CO1**  
a) Oligochaeta b) Polychaeta c) Hirudinea d) Echiurodia
- 5 In annelids which group do not contain parapodia and setae? **CO1**  
a) Oligochaeta b) Polychaeta c) Hirudinea d) Echiurodia
- 6 Insect which yield useful products are called \_\_\_\_ **CO3**  
a) Beneficial insects b) Harmful insects c) Productive insects d) Parasitic insects
- 7 The worker cells of honey bees are \_\_\_\_ in shape. **CO3**  
a) Triangular b) Square c) Hexagonal d) Round
- 8 Scorpion belongs to the phylum \_\_\_\_ **CO3**  
a) Arthropoda b) Annelida c) Nematoda d) Mollusca
- 9 The nest of termite is called \_\_\_\_ **CO3**  
a) Houses b) Hive c) Formicaries d) Termitarium
- 10 The phenomenon of the existence of several morphological forms in a species is called \_\_\_\_ **CO3**  
a) Caste system b) Polymorphism c) Co-operation d) Warming

**SECTION – B (Remembering)**

Answer any **FIVE** Questions:

**(5 X 2 = 10 Marks)**

- 11 What is coelom? **CO1**
- 12 Define parapodia. **CO1**
- 13 What is hermaphrodite? **CO1**
- 14 Comment on carapace. **CO3**
- 15 Write a short note about termitarium. **CO3**
- 16 Define Polymorphism. **CO3**
- 17 What are living fossils? **CO3**

**SECTION – C (Understanding)**

Answer any **THREE** Questions:

**(3 X 6= 18 Marks)**

- 18 Enlist the morphological features of Nereis with labelled diagram. **CO1**
- 19 Discuss the adaptive radiation in polychaetes. **CO1**
- 20 Write a note about the beneficial insects. **CO3**
- 21 Discuss briefly the social life of insects. **CO3**
- 22 Describe briefly the general characters of scorpion. **CO3**

**SECTION – D (Applying)**

Answer any **ONE** Question:

**(1X 12= 12 Marks)**

- 23 Give a detailed account on general characteristic features of phylum Annelida. **CO1**
- 24 Write an essay on economic importance of insects. **CO3**







**VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625234**  
**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09CT32	<b>Programme:</b>	B.Sc.,	<b>CIA:</b>	I
<b>Date:</b>	09.10.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	III
<b>Duration:</b>	2 Hours	<b>Year:</b>	II	<b>Max.Marks:</b>	50
<b>Course Title:</b>	<b>GENETICS</b>				

**SECTION – A (Remembering)**

Answer **ALL** the Questions: **(10 X 1 = 10 Marks)**

- 1 Genetics is a branch of biology, which deals with CO1  
a. Laws of heredity and variations    b. Process of cell division at gametogenesis  
c. Formation of new species through natural selection    d. All
- 2 The phenotypic ratio of monohybrid cross is CO1  
a. 3:1    b. 1:2:1    c. 1:1    d. 9:3:3:1
- 3 Mendel's experimental material was CO1  
a. *Pisum sativum*    b. *Lathyrus odoratus*    c. *Oryza sativa*    d. *Mirabilis jalappa*
- 4 Who coined the term linkage? CO3  
a. Correns    b. Mendel    c. Morgan    d. de Vries
- 5 How many linkage groups of chromosomes will be present in case of maize, if all its genes are mapped? CO3  
a) 5    b) 10    c) 15    d) 100
- 6 Crossing over occurs during CO3  
a) Pachytene    b) diplotene    c) diakinesis    d) pachytene
- 7 Coupling and repulsion are experimented on fruit fly by CO3  
a. Bateson    b. Morgan    c. Punnet    d. Sinnot
- 8 Which of the following type of sex determination occurs in man? CO4  
a. XX – XO    b. XY – XO    c. XX – XY    d. XXX - XY
- 9 Haemophilia is more common in males because of CO4  
a. Recessive character carried by Y-chromosome  
b. Dominant character carried by Y-chromosome  
c. Dominant trait carried by X-chromosome  
d. Recessive trait carried by X-chromosome
- 10 The Y linked genes are called CO4  
a. Chromosomes    b. Sex linkage    c. HH gene    d. Holandric gene

**SECTION – B (Remembering)**

Answer any **FIVE** Questions: **(5 X 2 = 10 Marks)**

- 11 Comment on mendelisms CO1
- 12 What is backcross? CO1
- 13 What is coupling? CO3
- 14 Mention the factors affecting linkage CO3
- 15 Write the significance of crossing over CO3
- 16 What is Gyanandromorphism? CO4
- 17 Comment on Barr body CO4

**SECTION – C (Understanding)**

Answer any **THREE** Questions: **(3 X 6= 18 Marks)**

- 18 Write the reasons for Mendel's success CO1
- 19 Analyse the biochemical basis of Epitasis CO1
- 20 Discuss the mechanism of crossing over CO3
- 21 Write an account on colour blindness CO4
- 22 Explain the bleeder's disease with suitable examples CO4

**SECTION – D (Applying)**

Answer any **ONE** Question: **(1X 12= 12 Marks)**

- 23 Write an essay on Mendel's law with illustrations CO1
- 24 Discuss in detail about chromosomal theory of sex determination in animals CO4





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**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09SB31	<b>Programme:</b>	B.Sc	<b>CIA:</b>	I
<b>Date:</b>	04.10.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	III
<b>Duration:</b>	1 Hour	<b>Year:</b>	II	<b>Max. Marks:</b>	25
<b>Course Title:</b>	<b>PUBLIC HEALTH AND HYGIENE</b>				

**SECTION – A (Remembering)**

Answer **ALL** the Questions:

(5X 1 = 5 Marks)

- 1 The most important function of carbohydrate is CO1  
a. Heart function      b. Supply energy      c. Tissues formation      d. Liver formation
- 2 Where is the headquarters of WHO located? CO1  
a. Geneva              b. USA                      c. India                      d. Russia
- 3 Surface water originates from CO2  
a. Rain water              b. Dam water              c. Sea water              d. River water
- 4 AIDS is an epidemic CO3  
a. Bacterial disease      b. Fungal disease      c. Viral disease              d. Protozoan disease
- 5 Amoebiasis is caused by CO3  
a. E.coli                      b. E. histolytica              c. S. typhi                      d. V. cholerae

**SECTION – B (Remembering)**

Answer any **TWO** Questions:

(2 X 2 = 4 Marks)

- 6 Define Balanced diet. CO1
- 7 What is Beri-beri? CO1
- 8 Enlist the water quality index? CO2
- 9 Write the symptoms of Amoebiasis. CO3

**SECTION – C (Understanding)**

Answer any **ONE** Question:

(1X 6= 6 Marks)

- 10 Discuss the methods of excreta disposal in rural areas. CO2
- 11 Briefly explain the causative organism and preventive measures of Poliomyelitis. CO3

**SECTION – D (Applying)**

Answer any **ONE** Question:

(1X 10= 10 Marks)

- 12 Explain the physiological role of carbohydrate, protein and fat. CO1
- 13 Discuss the various sets involved in sewage water treatment. CO2





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**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09AT01	<b>Programme:</b>	B.Sc.	<b>CIA:</b>	I
<b>Date:</b>	06.10.2021	<b>Major:</b>	Chemistry / Botany	<b>Semester:</b>	III
<b>Duration:</b>	2 Hours	<b>Year:</b>	II	<b>Max.Marks:</b>	50
<b>Course Title:</b>	<b>ANIMAL ORGANISATION</b>				

**SECTION – A (Remembering)**

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- 1 The mode of respiration in pigeon is\_\_\_\_ CO2  
a) Aquatic                      b) Pulmonary                      c) Anaerobic                      d) none
- 2 How many pairs of spiracles present in the respiratory system of cockroach? CO2  
a) 10                              b) 5                                      c) 20                                      d) 2
- 3 In amoeba the respiration is carried out by \_\_\_\_\_ CO2  
a) Gills                              b) Pseudopodia                      c) Spiracles                              d) Contractile Vacuole
- 4 In rabbits fertilization takes place within CO5  
a) Vagina                              b) Placenta                              c) Fallopian tube                      d) Ovary
- 5 Female gonads are called CO5  
a) Ovaries                              b) Ovules                              c) Testes                              d) Sperms
- 6 The term binomial nomenclature was proposed by CO1  
a) Hildebrand                              b) Linnaeus                              c) Hyman                              d) Young
- 7 The animal possessing a true coelom is called CO1  
a) Co-coelomic epithelium      b) Coelomata                              c) Body wall                              d) Pseudocoelomocytes
- 8 The assembling of animals into groups based on their similarity is known as CO1  
a) Anatomy                              b) Morphology                              c) Classification                              d) Palaeontology
- 9 The science of classification of species is called CO1  
a) Taxonomy                              b) Animal kingdom                              c) Sub-kingdom                              d) Evolution
- 10 The cavity located between the body wall and the alimentary canal is called CO1  
a) Symmetry                              b) Coelom                              c) Tissue                              d) Organ

**SECTION – B (Remembering)**

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- 11 What is Ingestion? CO2
- 12 Comment on double respiration. CO2
- 13 Define sexual dimorphism. CO5
- 14 Comment on eucoelom. CO1
- 15 What do you mean by bilateral symmetry? CO1
- 16 Write a short note on holozoic nutrition. CO1
- 17 Mention few functions of contractile vacuoles. CO1

**SECTION – C (Understanding)**

Answer any **THREE** Questions:

(3 X 6= 18 Marks)

- 18 Describe the holozoic nutrition with suitable example. CO2
- 19 Explain the respiratory system of cockroach. CO2
- 20 Sketch and comment on female reproductive system of rabbit. CO5
- 21 Describe briefly the general characters of protozoa. CO1
- 22 Write a short note about the advantages of nomenclature CO1

**SECTION – D (Applying)**

Answer any **ONE** Question:

(1X 12= 12 Marks)

- 23 Draw the labelled structure of respiratory system of pigeon and comment on it. CO2
- 24 Explain in detail the principles taxonomy CO1







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**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09CT52	<b>Programme:</b>	B.Sc	<b>CIA:</b>	I
<b>Date:</b>	16.09.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	V
<b>Duration:</b>	2 Hours	<b>Year:</b>	III	<b>Max.Marks:</b>	50
<b>Course Title:</b>	<b>BIOTECHNOLOGY</b>				

**SECTION – A (Remembering)**

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- 1 The IPR is protected by  
a. Patents                      b. Copyright                      c. trade Mark                      d. All of these                      **CO1**
- 2 Which one of the following is first artificial cloning vector?  
a. P<sup>UC</sup> vector                      b. P<sup>ACYC184</sup>                      c. P<sup>BR322</sup>                      d. P<sup>UC19</sup>                      **CO1**
- 3 Which plasmid is inducing tumor in plants?  
a. Ti- Plasmid                      b. *E. Coli*                      c. Plasmid                      d. Phagemids                      **CO1**
- 4 *Thermus aquaticus* is the source of  
a. Vent polymerase                      b. Primary enzyme                      c. Taq polymerase                      d. Primase enzyme                      **CO3**
- 5 The technique used to identify a gene product is  
a. Western blotting                      b. Plaque blotting                      c. Dot blotting                      d. Southern blotting                      **CO3**
- 6 Microarray chips are made up of  
a. Silicon                      b. Glass                      c. Gold                      d. Both a and b                      **CO3**
- 7 What are the types of microarray technology?  
a. cDNA based microarray                      b. Protein based microarray                      c. Oligonucleotide based microarray                      d. Both a and c                      **CO3**
- 8 The first crop plant genomes sequenced  
a) Maize                      b) Wheat                      c) Ric                      d) Barley                      **CO4**
- 9 Which enzyme is useful in genetic engineering?  
a) DNA Ligase                      b) Amylase                      c) Lipase                      d) restriction endonuclease                      **CO4**
- 10 The first crop plant genomes sequenced  
a) Maize                      b) Wheat                      c) Rice                      d) Barley                      **CO4**

**SECTION – B (Remembering)**

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- 11 Define the term geographical indication of goods.                      **CO1**
- 12 What are shuttle and expression vectors?                      **CO1**
- 13 What you meant by molecular scissors and molecular paste.                      **CO3**
- 14 Expand RFLP and RAPD.                      **CO3**
- 15 Write a short comment on molecular probe                      **CO3**
- 16 What is molecular farming?                      **CO4**
- 17 Mention the importance of *Bt* toxin gene                      **CO4**

**SECTION – C (Understanding)**

Answer any **THREE** Questions:

(3 X 6= 18 Marks)

- 18 Write a short note on IPR and its importance.                      **CO1**
- 19 Discuss briefly the structure and applications of the vector PBR<sup>322</sup>.                      **CO3**
- 20 Write an account on polymerase chain reaction and its application.                      **CO3**
- 21 Give a short note about tissue plasminogen activator (tPA)                      **CO4**
- 22 Write a note on the following: (i) Blood factor VIII (ii) Erythropoietin (EPO)                      **CO4**

**SECTION – D (Applying)**

Answer any **ONE** Question:

(1X 12= 12 Marks)

- 23 Write a detailed account on structure, properties and functions of various restriction endonucleases and its applications.                      **CO1**
- 24 Give a detailed account on transgenic animals with examples.                      **CO4**







**VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625234**  
**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09CT53	<b>Programme:</b>	B.Sc.,	<b>CIA:</b>	I
<b>Date:</b>	17.09.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	V
<b>Duration:</b>	2 Hours	<b>Year:</b>	III	<b>Max.Marks:</b>	50
<b>Course Title:</b>	<b>MICROBIOLOGY AND IMMUNOLOGY</b>				

**SECTION – A (Remembering)**

- Answer **ALL** the Questions: **(10 X 1 = 10 Marks)**
- 1 Pasteurization was introduced by CO1  
a) Louis Pasteur      b) Koch      c) Holmes      d) Redi
  - 2 The body of fungus is known as CO1  
a) Thallus      b) Mycelium      c) Conidium      d) Hypha
  - 3 Viral DNA is transcribed into CO1  
a) rRNA      b) mRNA      c) tRNA      d) both a and b
  - 4 Botulism is caused by CO2  
a) Clostridium      b) Staphylococcus      c) Escherichia      d) Salmonella
  - 5 \_\_\_\_\_ was the father of canning CO2  
a) Aristotle      b) Nicholas Appert      c) Fleming      d) Hansen
  - 6 Which of the following causes the spoilage of fish? CO2  
a) Flavobacterium      b) Torula      c) Serratia      d) Erwiniasp
  - 7 The name antibody was coined by CO4  
a) Von Behring      b) Jules Bordet      c) Stewart Douglass      d) Koch
  - 8 B Cells mature in CO4  
a) Spleen      b) Thymus      c) Bone marrow      d) Lymph node
  - 9 Abundant immunoglobulin among the following is CO4  
a) IgE      b) IgA      c) IgG      d) IgM
  - 10 Tissue fluid in the lymphatic system is called \_\_\_\_\_. CO4  
a) plasma      b) hemoplasma      c) Ringer's solution      d) lymph

**SECTION – B (Remembering)**

- Answer any **FIVE** Questions: **(5 X 2 = 10 Marks)**
- 11 Comment Koch's postulates. CO1
  - 12 What is lyophilization? CO1
  - 13 What is culture media? CO1
  - 14 Mention any two symbiotic nitrogen fixing bacteria. CO2
  - 15 What is innate immunity? CO4
  - 16 Enlist the layered defense of immune system. CO4
  - 17 Comment on MALT. CO4

**SECTION – C (Understanding)**

- Answer any **THREE** Questions: **(3 X 6= 18 Marks)**
- 18 Describe briefly the cultural characteristics of bacteria. CO1
  - 19 Discuss the reproduction in bacteria. CO1
  - 20 Write about fermented food. CO2
  - 21 Give a brief account on physical factors of innate immunity. CO4
  - 22 Describe the structure of primary lymphoid organs with labelled diagram. CO4

**SECTION – D (Applying)**

- Answer any **ONE** Question: **(1X 12= 12 Marks)**
- 23 Analyse in detail the physical and chemical methods of food preservation. CO2
  - 24 Give a detailed account on vaccine and tabulate immunization schedule. CO4





**VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625234**  
**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09EP51	<b>Programme:</b>	B.Sc.,	<b>CIA:</b>	I
<b>Date:</b>	18.09.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	V
<b>Duration:</b>	2 Hours	<b>Year:</b>	III	<b>Max.Marks:</b>	50
<b>Course Title:</b>	<b>BIostatistics, Computer Applications &amp; Bioinformatics</b>				

**SECTION – A (Remembering)**

Answer **ALL** the Questions: (10 X 1 = 10 Marks)

- 1 Data obtained by the investigator from personal experimental studies is called CO1  
a. primary data    b. arrayed data    c. chronological data    d. simple data
- 2 Percentage frequency distribution is represented by CO1  
a. frequency polygon    b. Ogive representation    c. pie diagram    d. frequency table
- 3 Continuous variable is represented by CO1  
a. histogram    b. line diagram    c. bar diagram    d. pie chart
- 4 The difference between the largest value and smallest value of a series is CO2  
a. Q.D    b. Range    c. S.D    d. M.D
- 5 Mode is CO2  
a. most frequent value    b. least frequent value    c. middle most value    d. All
- 6 RAM' stands for CO4  
a. Random Access Memory    b. Read Access Memory    c. Read Arithmetic Memory  
d. Random Arithmetic Memory
- 7 Which shortcut makes selected text Italic? CO4  
a. Ctrl + I    b. Ctrl + A    c. Ctrl + S    d. Ctrl + V
- 8 Which one is the spreadsheet application that comes with MS Office software group? CO4  
a. MS Word    b. MS Excel    c. MS PowerPoint    d. MS Access
- 9 Which key can be used to view Slide show? CO4  
a. F5    b. F2    c. F7    d. F9
- 10 In conversion of Decimal to binary the decimal 43 is equal to the binary CO4  
a. 101011    b. 101010    c. 001011    d. 001010

**SECTION – B (Remembering)**

Answer any **FIVE** Questions: (5 X 2 = 10 Marks)

- 11 What is data? CO1
- 12 Define four and cross method CO1
- 13 List out parts of a table CO1
- 14 Find out Median: 3, 4, 7, 2, 9, 10, 11, 12 CO2
- 15 What are the components of MS word title bar? CO4
- 16 Mention two significances of super computers CO4
- 17 Write down the short cut key for cut, copy and paste in MS office CO4

**SECTION – C (Understanding)**

Answer any **THREE** Questions: (3 X 6= 18 Marks)

- 18 Describe classification of data with illustrations CO1
- 19 Explain the following: i. Bar diagram    ii. Histogram CO1
- 20 Differentiate Mean and Median CO2
- 21 Discuss different types of computers, its special features. CO4
- 22 Explain the home page of MS Excel softwares CO4

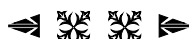
**SECTION – D (Applying)**

Answer any **ONE** Question: (1X 12= 12 Marks)

- 23 Compute mean, median and mode for the given data which shows the weight of fishes in grams CO2

<b>Length of fishes (cm)</b>	<b>0-5</b>	<b>5-10</b>	<b>10-15</b>	<b>15-20</b>	<b>20-25</b>	<b>25-30</b>
<b>No. of fishes</b>	<b>7</b>	<b>5</b>	<b>6</b>	<b>11</b>	<b>9</b>	<b>4</b>

- 24 Give an account on unique features of MS word and powerpoint softwares CO4





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**DEPARTMENT OF ZOOLOGY**

<b>Course Code:</b>	09SB51	<b>Programme:</b>	B.Sc	<b>CIA:</b>	I
<b>Date:</b>	13.09.2021	<b>Major:</b>	Zoology	<b>Semester:</b>	V
<b>Duration:</b>	1 Hour	<b>Year:</b>	III	<b>Max.Marks:</b>	25
<b>Course Title:</b>	<b>SERICULTURE</b>				

**SECTION – A**

Answer **ALL** the Questions:

**(5 X 1 = 5 Marks)**

- 1 The first authentic reference to silk is found in the chronicle of the chou king of  
a) China                      b) India                      c) Japan                      d) Russia                      **CO1**
- 2 The rearing of silkworm is called  
a) Sericulture                      b) Moriculture                      c) Vermiculture                      d) Aquaculture                      **CO1**
- 3 The Powdery mildew diseases caused by  
a) Bacteria                      b) Fungus                      c) Virus                      d) Nematodes                      **CO2**
- 4 The technique of joining of the parts of two plants is called  
a) Grafting                      b) Cutting                      c) Transplantation                      d) Layering                      **CO2**
- 5 Which part of silk gland drawn out silk in the form of fine filament?  
a) Spinneret                      b) Prothoracic gland                      c) Scent glands                      d) Lyonnet gland                      **CO3**

**SECTION – B**

Answer any **TWO** Questions:

**(2 X 2 = 4 Marks)**

- 6 Distinguish between mulberry and non-mulberry silkworm.                      **CO1**
- 7 List out the supporting Organizations for sericulture.                      **CO1**
- 8 What is meant by Pruning?                      **CO2**
- 9 Give a short note on brushing.                      **CO3**

**SECTION – C**

Answer any **ONE** Questions:

**(1 X 6= 6 Marks)**

- 10 Describe the different methods of Irrigation.                      **CO2**
- 11 Write about the importance of bed cleaning in silkworm rearing.                      **CO3**

**SECTION – D**

Answer any **ONE** Question:

**(1 X 10= 10 Marks)**

- 12 Write an essay on different methods of propagation in mulberry cultivation.                      **CO2**
- 13 Discuss elaborately the life cycle of silkworm.                      **CO3**

