

Code: A-B 730113-A

I SEMESTER EXAM. - 2023-24

2 x 360

Std.: XI

Sub: BIOLOGY

Marks: 50

Date: 04/11/23

Roll No.: _____

Time: 2½ hrs.

General Instructions : The question paper is divided into four sections.

1. **Section - A :** Q No. 1 contains Seven multiple choice types of questions carrying one mark each.
 - i) For each multiple choice type of questions it is mandatory to write the correct answer long with its alphabet. eg. a)/ b)...../ c)...../ d)..... etc. No marks shall be given if ONLY the correct answer or alphabet of the correct answer is written.
 - ii) In case of MCQ, evaluation will be done for first attempt only. Q. No. 2 contains Seven very short answer type of questions carrying one mark each.
2. **Section - B :** Q. No. 3 to Q. No. 13 are short answer type of questions carrying two marks each.
3. **Section - C :** Q. No. 14 to Q. No.19 are short answer type of questions carrying three marks each.
4. **Section - D :** Q. No. 20 to Q. No. 23 are long answer type of question carrying four marks each.
5. Begin the answer of each section on a new page.

Section - A

Q.1 Select and Write the correct answer.

7

- (i) Which of the following shows single standard RNA and lacks protein coat?
 - a. Bacteriophage
 - b. Plant virus
 - c. Viroid
 - d. Animal Virus
- (ii) Which organism belongs to kingdom Monera?
 - a. Cyanobacteria
 - b. Mushroom
 - c. Euglena
 - d. Moss
- (iii) _____ is an oviparous mammal,
 - a. Macaca
 - b. Pteropus
 - c. Macropus
 - d. Duck billed platypus
- (iv) Select the animal having venous heart?
 - a. Crocodile
 - b. Salamander
 - c. Rohu
 - d. Toad
- (v) Plasma membrane is
 - a. Selectively permeable
 - b. Permeable
 - c. Impermeable
 - d. Semipermeable
- (vi) Schwann cells and nodes of Ranvier are found In
 - a. Neurons
 - b. Chondroblast
 - c. Osteoblasts
 - d. Epimysium

P.T.O

- (vii) Nissl's granules are found in
- Cartilage cell
 - Nerve cell
 - Muscle cells
 - Osteoblasts

Q.2 Answer the following questions.

7

- Why neurons are not capable of regeneration? ‘
- What are plastids?
- Reptiles are known for having three chambered heart. Which animal shows a near four chambered condition in reptiles?
- Name the flightless bird.
- Enlist the accessory pigments of algae.
- Unicellular eukaryotic organism are included in which kingdom?
- Define nomenclature.

Section - B

Attempt any Eight

16

- Write a note on "key" used as a taxonomical aid.
- Draw neat and labelled diagram of Paramecium.
- Write a note on economic importance of fungi.
- Differentiate between Chlorophyceae and Phaeophyceae
- Draw neat and labelled diagram of Spirogyra. *
- Economic importance of algae.
- Give adaptations in Aves for flying.
- Explain the term totipotency.
- "Lysosomes are called suicide bags of the cell". Why?
- Mitochondria are power house of the cell. Give reasons.
- How are neurons classified depending on the presence or absence of myelin sheath?

Section - C

Attempt any Four

12

- Draw a neat labelled diagram of Structure of multipolar neuron.
- Distinguish between Plant cell and animal cell.
- Describe the structure of Mitochondria.
- Mention the characteristic feature of class Cyclostomata.
- Write a note on Chlorophyceae.
- What are the essentials of a good herbarium?

Section - D

Attempt any Two

8

- Give important features of class Mammalia.
- Explain the structure of plasma membrane on the basis of Fluid Mosaic Model.
- Describe the structure of Nucleus.
- Differentiate between Medullated and Non-Medullated fibre.
