Code: A-B730113-M	**I SEMESTER EXAM - 2023-24**	2 x 490
Std.: XI	Sub: Biology	Marks: 50
Date: 04/11/2023	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 type of questions carrying one mark each.
   i) For each multiple choice type of questions it is mandatory to write the correct answer along 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 answers 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 questions 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) Taxonomical aid used for classification of plants and animals which is based on contrasting characters
   a) Herbarium b) Museum c) Key d) Zoo

ii) Causative agent of red tide is _____
   a) Dinoflagellate b) Euglenoid c) Chrysophyte d) Lichen

iii) _____ is an oviparous mammal.
   a) Macaca b) Pteropus c) Macropus
   d) Duck billed platypus

iv) Cell wall is present in
   a) Plant cell b) Prokaryotic cell c) Algal cell
   d) All of the above

v) Which of the following is a Brown algae
   a) Laminaria b) Pteris c) Ulothrix d) Gelidium

vi) Schwann cells and nodes of Ranvier are found in
   a) Neurons b) Chondroblast c) Osteoblasts d) Epimysium

vii) Which one of the following belongs to subphylum Cephalochordata ?
   a) Amphioxus b) Herdmania c) Petromyzon d) Ascidia

Q.2 Answer the following questions. (7)

i) What are neuroglial cells?
ii) Define cell
iii) Name the Limbless amphibian.
iv) Name the flightless bird.
v) Enlist the accessory pigments of algae.
vi) Unicellular eukaryotic organism is included in which kingdom ?
vii) What is a herbarium ?

Section - B

Attempt any Eight **(16)**

Q.3 What will be the shape of a bacillus and coccus type of bacteria?

Q.4 Draw neat and labelled diagram of Paramoecium.

Q.5 Write a note on economic importance of fungi.

Q.6 Differentiate between Plantae and Animalia.

Q.7 Draw neat and labelled diagram of Spirogyra.

Q.8 Differentiate between Rhodophyceae and Phaeophyceae.

Q.9 Give adaptations in Aves for flying.

Q.10 Differential between : Chlorophyceae and Phaeophyceae

Q.11 "Lysosomes are called suicide bags of the cell". Why?

Q.12 Write a note on economic importance of algae.

Q.13 How are neurons classified depending on the presence or absence of myelin sheath?

Section - C

Attempt any Four **(12)**

Q.14 Draw a neat labelled diagram of Structure of multipolar neuron.

Q.15 Describe the structure of mitochondria.

Q.16 What are the types of Plastids?

Q.17 Mention the characteristics feature of class Cyclostomata.

Q.18 Write a note on Chlorophyceae.

Q.19 What are the essentials of a good herbarium?

Section - D

Attempt any Two **(8)**

Q.20 Give important features of class Mammalia.

Q.21 Explain the structure of plasma membrane on the basis of Fluid Mosaic Model.

Q.22 Describe the structure of Nucleus.

Q.23 Differentiate between Medullated and Non-Medullated nerve fibre.