XI First Semester Exam - 2023

Biology Question Bank

Section A

Q1. Select and write the correct answer.

- 1. Taxonomical aid used for classification of plants and animals which is based on contrasting characters
 - a. Herbarium
 - b. Museum
 - c. Key
 - d. Zoo
- 2. The statement in a key is called
 - a. Herbarium
 - b. Biodiversity
 - c. Museum
 - d. Lead
- 3. Which of the following shows single standard RNA and lacks protein coat?
 - a. Bacteriophage
 - b. Plant virus
 - c. Viroid
 - d. Animal Virus
- 4. Causative agent of red tide is
 - a. Dinoflagellate
 - b. Euglenoid
 - c. Chrysophyte
 - d. Lichen
- 5. Which organism belongs to kingdom Monera?
 - a. Cyanobacteria
 - b. Mushroom
 - c. Euglena
 - d. Moss
- 6. Unicellular non-motile alga is
 - a. Chara
 - b. Chlorella
 - c. Funaria
 - d. Chlamaydomonas

7. Which of the following is a brown algae?
a. Laminaria
b. Pteris
c. Ulothrix
d. Gelidium
8. Which one of the following belongs to subphylum Cephalochordata?
a. Amphioxus
b. Herdmania
c. Petromyzon
d. Ascidia
9. Select the animal having venous heart?
a. Crocodile
b. Salamander
c. Rohu
d. Toad
10. Which of the following is INCORRECT in case of birds?
a. Presence of teeth
b. Presence of scales
c. Nucleated RBCs
d. Hollow bones
11is an oviparous mammal.

a. Macacab. Pteropusc. Macropus

d. Duck billed platypus

12. Cell wall is present in

b. Prokaryotic cell

d. All of the above 13. Plasma membrane is

a. Selectively permeable

a. Plant cell

c. Algal cell

b. Permeable

c. Impermeabled. Semipermeable

- 14. Mitochondria DNA is
 - a. Naked
 - b. Circular
 - c. Double stranded
 - d. Each one of the above
- 15. Nissl's granules are found in
 - a. Cartilage cell
 - b. Nerve cell
 - c. Muscle cells
 - d. Osteoblasts
- 16. Schwann cells and nodes of Ranvier are found in
 - a. Neurons
 - b. Chondroblast
 - c. Osteoblasts
 - d. Epimysium

Q2. Answer the following question.

- 1. What are neuroglial cells?
- 2. Why neurons are not capable of regeneration?
- 3. Define cell
- 4. What is the function of contractile vacuole in paramecium?
- 5. What are plastids?
- 6. Name the Limbless amphibian.
- 7. Reptiles are known for having three chambered heart. Which animal shows a near four chambered condition in reptiles?
- 8. Name the flightless bird.
- 9. Enlist the accessory pigments of algae.
- 10. Define nomeanclature.
- 11. Unicellular eukaryotic organism are included in which kingdom?
- 12. What is a herbarium?

Section B

- Q 1. Write a note on "key" used as a taxonomical aid.
- Q 2. What will be the shape of a bacillus and coccus type of bacteria?
- Q 3. Draw neat and labelled diagram of Paramecium.
- Q 4. Write a note on economic importance of fungi.
- Q 5. Differentiate between Plantae and Animalia.

- Q 6. Draw neat and labelled diagram of Spirogyra.
- Q 7. Differentiate between Chlorophyceae and Phaeophyceae.
- Q 8. Differentiate between Rhodophyceae and Phaeophyceae.
- Q 9. Economics importance of algae.
- Q 10. Give adaptations in Aves for flying.
- Q 11. Explain the term totipotency.
- Q 12. "Lysosomes are called suicide bags of the cell". Why?
- Q 13. Mitochondria are power house of the cell. Give reasons.
- Q 14. How are neurons classified depending on the presence or absence of myelin sheath?

Section C

- Q 1. Draw a neat labelled diagram of Structure of multipolar neuron.
- Q 2. Distinguish between Plant cell and animal cell.
- Q 3. What are the types of Plastids?
- Q 4. Describe the structure of Mitochondria.
- Q 5. Write a short note on Amphibians.
- Q 6. Mention the characteristics feature of class Cyclostomata.
- Q7. Write a note on Chlorophyceae.
- Q 8. What are the essentials of a good herbarium?

Section D

- Q 1. Give important features of class Mammalia.
- Q 2. Explain the structure of plasma membrane on the basis of Fluid Mosaic Model.
- Q 3. Describe the structure of Nucleus.
- Q 4. Differentiate between Medullated and Non-Medullated fibre.