

DELHI PUBLIC SCHOOL, JAMMU
HALF YEARLY EXAMINATION
ASSIGNMENT SESSION (2019–20)

Class: XI

Subject: Biology

Section A

Q1. What do you mean by defining features of living organisms?

Or

What is the importance of systematic?

Q2. Which animal phylum shows presence of radulla?

Q3 Define metamerism and symmetry in animals.

Q4. What do you mean by aestivation in plants?

Q5. Define protoxylem and metaxylem.

Or

What do you mean by periderm and phellogen?

Section B

Q6. Explain various types of taxonomical aids? Give few functions of botanical garden.

Or

What are the types of nomenclature? Which nomenclature system is better and why?

Q7. Draw a flow chart for various types of animal tissue? List some important functions of fluid connective tissue of humans.

Q8. Define blood and what are its components?

b) How is tendon different from ligament?

Q9. Who proposed cell theory and when? What is the function of centrosome and lysosomes in cell?

Or

Explain the structure and function of ribosomes.

Q10. Explain the structure and function of cell wall.

Q11. List few features of arthropoda.

Q12. Define cell cycle. Explain cell cycle checkpoints.

Section C

Q13. Draw a well labeled diagram of T.S of dicot stem.

Q14. Explain the steps involved in sexual reproduction in fungi.

Or

Write down the characteristic features of various classes of kingdom monera.

Q15. Which class of fungi is known as conjugation fungi? List some important features of phycomycetes.

Q16. Explain various types of life cycles in plants.

Or

Explain the life cycle of anyone algae

- Q17.** Which plant class is known as amphibians of the plant kingdom and why?
- Q18.** Which part of plant form roots? List some important modifications of leaf.
- Q19.** Explain the aestivation and placentation in tomato and mango?
- Q20.** Draw a well labeled diagram of T.S. of a monocot root.
- Q21.** What do you mean by secondary growth? Explain secondary growth in dicot roots.
- Q22.** What do you mean by hermaphrodite flowers? Differentiate between staminate and pistillate flower.
- Q23.** Explain external morphology of cockroach with the help of diagram.
- Q24.** Differentiate between tendon and ligament.
- b) Why neurophils are called phagocytic cells?

Section D

- Q25 a).** List some important features of nematodes.
- b). List some adaptations of platyhelminthies that help them to live as endoparasites.
- c). List one function of gemmules in porifera.
- Or
- a). What do you mean by body vascular cavity? In which animal phylum it is present?
- b). List some important features of hemichordata and vertebrata.
- Q26 a).** Explain the structure and function of power house of cell with the help of well labeled diagram.
- b). Give one function each of dictyosomes and vacuole.
- Or
- a). What do you mean by membrane permibility? Explain various types of membranes based upon its permibility.
- b). Differentiate between prokaryotic cell and eukaryotic cell.
- c). List one function each of cilia and flagella in fungi.
- Q27.** Which stage among meiosis is called as reductional division and why? Explain various stages of this division with the help of diagram.
- Or
- a). Which type of cell division occur in human gonads?
- b). Explain various stages of cell cycle with the help of diagram.
- c). Comment on the statement telophase is reverse of prophase.