

FACULTY HIGHER SECONDARY SCHOOL  
Sample paper  
SUBJECT-BIOLOGY  
CLASS-XI

FULL MARKS: 50

GENERAL INSTRUCTION:

---

- (i) All questions are compulsory
  - (ii) The question paper consist of five sections A,B,C, and D. Section A contains 5 questions of 1 mark each. Section B is of 7 questions of 2 marks each. Section C has 7 questions of 3 marks each. Section D consist of 2 question of 5 marks.
  - (iii) There is no overall choice.( Internal choice will be given in the main paper in each section.)
  - (iv) Whenever necessary, the diagrams drawn should be neat and properly labelled
- 

**SECTION A**

- Q1. A class of Protista releases toxin and also make the sea appear red. Name the organisms and give the reason of the Red tide.
- Q2. Give the scientific name of the staple food of Punjab
- Q3. Define Tidal volume
- Q4. Give two examples of the plants who follow the Haplontic life cycle
- Q5. Cnidarians exhibit two basic body forms. Name them

**SECTION B**

- Q6. How do viruses differs from viroids?
- Q7. Show the formation of peptide bond between two different amino acids.
- Q8. The effect of water as a factor is more through its effect on the plant, rather than directly on photosynthesis. How?
- Q9. What are Gemmae? Give a brief description of it.
- Q10. Give the significance of notochord in the classification of the animal kingdom.
- Q11. How Cristae in mitochondria help as the site for respiration?
- Q12. No significant digestive activity occurs in the large intestine .What are the functions of the large intestine then?

### SECTION C

Q13. a) Differentiate cyclic and non-cyclic photophosphorylation.

b) In which part of the plant cell does light reaction take place and why?

Q14. Watson and Crick were awarded Nobel Prize in the year 1953 for their model of nucleic acid. Describe their contribution in the field of genetics.

Q15. Give a detailed description of the fluid mosaic model.

Q16. a. What do you mean by Glycolysis?

b. Why is this the only step of cellular respiration that occurs both in aerobic and anaerobic respiration?

Q17. Explain the role of the Gastric Cells in the process of Digestion.

Q18. Differentiate between Mitosis and Meiosis I

Q19. All the factors in our body are favourable for diffusion of  $O_2$  from alveoli to tissues and that of  $CO_2$  from tissues to alveoli. Justify

### SECTION D

Q20. a. Give the detailed structure of the walls of the alimentary canal.

b. Which part of the wall is designed for absorption?

c. How are water insoluble particles made possible for absorption?

Q21 a. Describe all the stages of prophase I with neat and labeled diagram.

b. Give the significance of meiosis.

\*\*\*\*\*