
CBSE SAMPLE PAPER – 06 (Unsolved)

Class-XI

BIOLOGY (THEORY)

Time: 3 Hrs

MM: 70

General Instructions

1. The question paper comprises of five Sections A, B, C, D and E.
2. All questions are compulsory.
3. There is no overall choice however; internal choice has been provided in one question of 2 marks, one question of 3 marks and all the two questions of five marks category. Only one option in such question is to be attempted.
4. Questions 1 to 5 in section A are very short questions of one mark each. These are to be answered in one word or one sentence each.
5. Questions 6 to 9 in section B are short questions of two marks each. These are to be answered in approximately 20-30 words each.
6. Questions 10 to 20 in section C are questions of three marks each. These are to be answered in approximately 30-50 words each. Question 21 is of 4 marks.
7. Questions 22 to 23 in section D are questions of five marks each. These are to be answered in approximately 80-120 words each.
8. Questions 24 to 26 in section E is based on OTBA of 10 marks.

Section – A

1. What is hydroponics?
2. What is emphysema?
3. What is quiescent phase of cell cycle?
4. What is the full form of 2, 4-D?
5. Where do you find sphincter of oddi?

Section – B

6. Give the reactions of glycolysis where ATP molecules are produced?
 7. Write the human dental formula. What is meant by diphyodont?
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Or

What are miscelles? Give their uses.

8. Differentiate loose and dense connective tissue.
9. What are the important features of cnidarians?

Section – C

10. Give the difference between open and closed vascular bundles.
11. Define a. Exocrine gland, b. Endocrine gland and c. Hormone with suitable examples.
12. Explain the general structure of synovial joints with example.

Or

Explain the structure of contractile proteins.

13. What are porins? Give its function in diffusion.
14. What is photorespiration and where does it take place?
15. Give the mechanism of clotting of blood.
16. Define: a. Differentiation, b. De-differentiation and c. Re-differentiation.
17. Explain briefly the fluid mosaic model of plasma membrane.
18. Why nitrifying bacteria of the soil are chemoautotroph? Give examples.
19. Why amphibians are called so? Give examples.
20. Differentiate racemose and cymose inflorescence?
21. **On world population day Rohit and his friends arranged an awareness campaign programme in their locality. Some elderly people rebuked the children and asked them not to talk on such things in public. The children convinced the elders about the need for the programme and on understanding their point of view, they also joined the campaign.**
 - a) What values did the elderly people and Rohit show on the occasion?
 - b) Why is such awareness programme necessary?
 - c) What role has the government played in controlling population explosion?

Section – D

22. Explain the stages involved in meiosis – I in animal cell with neat sketch.

Or

- a. Describe synapsis, chiasmata and bivalent with neat sketch.
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b. Give the significance of meiosis.

23. Explain how hearing and maintenance of is body balance achieved in human beings?

Or

Explain the process of conduction of nerve impulse.

Section-E (OTBA) Questions

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| 24. | OTBA Question | 2 mark |
| 25. | OTBA Question | 3 mark |
| 26. | OTBA Question | 5 mark |