
CBSE SAMPLE PAPER –04**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 the meaning of double circulation?
2. Why blood plasma is pale yellow in colour?
3. Define kinetochore.
4. Give the overall reaction of photosynthesis.
5. What is meant by compensation point?

Section – B

6. Define guttation, hydathodes and transpiration.

7. What is Glycolysis? Name two monosaccharide which readily enter the glycolytic pathway.

Or

Differentiate cytokinesis in plant cell and cytokinesis in animal cell.

8. What is the role of HCl in protein digestion?

9. What are the stilt roots? Give two examples.

Section – C

10. Write difference between antiport and symport?

11. What is night blindness? What lacks in the eye in this condition? Give one remedy.

12. Name the watery fluid secreted from Brunner's gland in the duodenum. Mention any two characteristics. Give its role inside duodenum.

13. List various functions of epithelial tissue.

14. Draw a labelled diagram of any four types of placentation.

15. Draw the structure showing secondary structure of DNA.

16. How do you perceive the colour of an object?

17. Draw a labelled diagram of closed circulatory system of earthworm.

Or

Draw labelled diagram of T.S. of dicot root.

18. Differentiate male and female Ascaris.

19. Explain the different categories of animals based on the presence or absence of coelom.

20. Differentiate cyclic photophosphorylation and non-cyclic photophosphorylation.

21. **Rakesh and Karim lives in colony. One day Rakesh cut his hand with kitchen knife while making some project work. He observed that bleeding is not getting stopped in**

spite of using antiseptic lotion for very long period of time. He called Karim and told the case about the not stopping of blood. He at once took him to a clinic where doctor diagnosis that it is a genetic disease.

- a. What values do you find in Karim?
- b. Name the disease to which Rakesh is suffering from?
- c. Is this disease be treated using medicine permanently? Why or why not?

Section – D

22. Write a short note on pectoral and pelvic girdle with the help of diagram.

Or

“Transpiration and photosynthesis – a compromise”. Comment.

23. Write a note on proteins. Name some important proteins found in humans. Give their functions.

Or

Describe briefly the chemical steps in Calvin cycle.

Section-E (OTBA) Questions

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