
CBSE SAMPLE PAPER – 08**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. Show the taxonomic categories in hierarchical arrangement in ascending order.
2. What are uricotelic animals? Give example.
3. Define metamerism. Give an example.
4. Give an example of zwitter ionic form.
5. Draw a graph of oxygen dissociation curve.

Section – B

6. Define the terms isotonic and solute potential?
7. What is mesosome in a prokaryotic cell? Mention any two functions it performs.
8. Bring out the differences between the stele of dicot root and monocot root.
9. (i) Name two red algae from where agar is obtained.

(ii) What is alternation of generations?

Or

What is meant by a heterosporous fern? Give two examples?

Section – C

10. Bring out the role of haemoglobin in the transport of respiratory gases.
11. How is a nerve impulse conducted along a non- myelinated nerve fibre
12. Write a short note on euglenoids with the structure of Euglena.
13. Explain briefly about the phloem parenchyma and phloem fibres.
14. Draw a graph to explain the concept of activation of energy.
15. What are tap root system and fibrous root system? Give an example for each.
16. Explain cell theory.
17. Write a note on primary and secondary structure of proteins with a neat sketch.
18. What are the key features of metaphase and prophase?
19. Draw a well labelled diagram of head region of a cockroach.

Or

Draw a labelled diagram of structure of neuron.

20. Explain the role of calcium to plants.
21. **Rashmi was a social worker in rural area. One day she met a lady. The lady discussed her problem about forceful termination of her Foetus for many times due to female child. Next day, Rashmi meets the parents in laws of the lady and explained about the importance of girl child. Next time the lady was not forced to undergo termination.**

a. What values do you find in Rashmi?

b. Which procedure is used to know the sex of Foetus?

c. How this practice is unlawful?

Section – D

22. Explain in detail about Solanaceae.

Or

Give the physiological effects of Gibberellins and Cytokinins

23. What are the factors that affect photosynthesis?

Or

What are the disorders of muscular and skeletal system?

Section-E (OTBA) Questions

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