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**CBSE SAMPLE PAPER – 08 (Unsolved)**

**Class-XI**

**BIOLOGY (THEORY)**

**Time: 3 Hrs**

**MM: 70**

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**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. Name the enzyme secreted by the stomach of infants. What is the role of same enzyme in digestion?
2. What is the 1<sup>st</sup> stage of mosses which develops directly from spores? Give one characteristic of the same stage.
3. What is kinetin chemically?
4. Give two functions of lymph.
5. Define root pressure.

**Section – B**

6. Differentiate an epigynous flower from a hypogynous flower.
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7. Draw a labelled diagram of a bacteriophage.

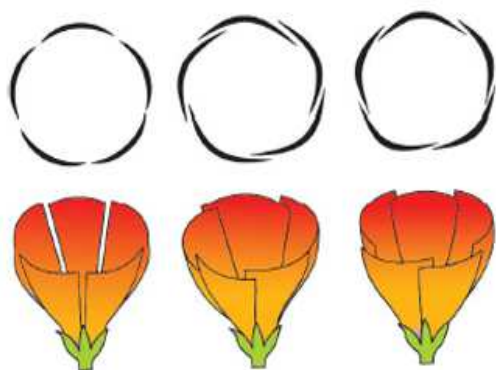
Or

Draw a labelled diagram of a funaria plant.

8. Differentiate Platyhelminthes and Aschelminthes.  
9. What are nuclear pores? Mention their functions.

### **Section – C**

10. What is corpus callosum? Give the total number of pairs of motor and sensory nerves in a human being.  
11. What is endomembrane system? Give two examples of the related cell organelle.  
12. What is nucleotide? If the adenine in a DNA molecule is 10%, then what would be the amount of guanine in this DNA?  
13. Give the names of the various forms of aestivation in the same order as depicted in the following diagrams giving one example of each type.



14. Draw the labelled diagram of internal organs of frog.

Or

Draw the diagram of V.S. of a maize grain and label any six parts.

15. Describe the secondary growth that occurs in a dicot stem.  
16. Name the sub-class to which the enzymes – amylase, dehydrogenase and histidine decarboxylase belong and why?  
17. Describe the conducting system of heart.  
18. Differentiate epithelial tissue and connective tissue.  
19. Mention any four applications of auxins in plant growth.  
20. Mention two functions of a) calcium in meristems and b) zinc in plants.
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**21. Mrs. Kavita was eager to know the sex of the foetus which her daughter- in- law was carrying. She was so anxious that she could pay any amount for that. The doctor refused to disclose the result of the test.**

- a) What value do you learn from the doctor's act?
- b) How can one know the sex of the foetus? How is it done?
- c) Why is disclosing the sex of the foetus banned in our country?

**Section – D**

22. How is carbon dioxide transported from the tissues to the lungs in our blood?

Or

Describe the formation of root nodule in a legume plant. Why does it look pink?.

23. Describe the different types of plastids, their pigments and functions.

Or

Explain the steps in urine formation in a human kidney.

**Section-E (OTBA) Questions**

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