
CBSE SAMPLE PAPER –05 (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. Why slime moulds are called fungus-animals?
2. Which hormone is called immunosuppressive and a stress hormone?
3. Define taxon.
4. What is mycoplasma? Mention its other name.
5. What is the cause of erythroblastosis foetalis?

Section – B

6. What are liverworts? Why are they so called?
 7. What is GLUT – 4? Give its role in cell.
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8. Draw the erythrocytic cycle of malarial parasite in a human being.

Or

What are chrysophytes? Give their characteristics with suitable examples.

9. Describe the functions of the plastid.

Section – C

10. Give reason: "Krebs cycle is also known as amphibolic pathway".

11. What is GERL system? Give two functions of the related cell organelle?

12. A nerve cell releases 36 ATPs whereas a kidney cell releases 38 ATPs by complete oxidation of one gram mole of glucose. Why?

a) What is fungi imperfecti?

b) Outline the classification of kingdom fungi

13. What are ERV and IRV? Give various steps involves in respiration.

14. What is synapse? Explain how nerve impulse is transmitted across a synapse?

a) Give outline classification of chordates with example of each major group.

b) Give two diagnostic characters of chordata.

Or

a) Give outline classification of plant kingdom with examples of each major group.

b) Give two diagnostic characters of gymnosperms.

15. Give the difference between open and closed vascular bundles.

16. Define

a) Exocrine gland

b) Endocrine gland and

c) Hormone with suitable examples.

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17. Explain the general structure of synovial joints with example.
18. What is meant by biological nitrogen fixation? Explain the process of biological nitrogen fixation.
19. Describe the process of crossing over. What is its significance?
20. Give the mechanism of clotting of blood.
21. **Mohan and Yashpal are friends. There is a huge banyan tree on the boundary of Yashpal field. One day Yashpal decided to cut the tree as it's fruit is of no use and wood is of inferior quality. Mohan stopped him from cutting the tree and explain the importance of tree and finally Yashpal agreed to not cutting the tree.**
- a) What values do you find in Mohan?
- b) Who plants help in gaseous balance in nature?
- c) What are other uses of plants besides fruits

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.
- 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 |
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