CBSE SAMPLE PAPER – 06

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. Questions1 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 to26 in section E is based on OTBA of 10 marks.

Section – A

1. What do you understand by the term malnutrition?
2. What name is given to functional unit of kidney?
3. What is middle lamella?
4. How do rise in temperature affect
5. Where is electron transport system operative in mitochondria?

Section – B

6. What are biomolecules?
7. What is the chemical difference between a saturated and an unsaturated fat?
8. Explain the term exarch and endarch conditions of xylem.
9. Write a note on triglycerides.

Or

Explain haplontic and diplontic life cycles by giving examples.

Section – C

10. Describe PSI and PSII
11. What is systemic circulation? Describe its importance. Why are the walls of the ventricle more muscular than the walls of atria?
12. Explain the initiation of muscle contraction. What is the role of sacroplasmic reticulum, myosin head and F-actin during contraction in striated muscles?
13. Why do plants of the legume family usually contain more protein than other plants?
14. Define: a) IRV and b) ERV
15. Enumerate the peculiar features that you find in phylum chordata.
16. What are the muscle tissues? What are the three types of muscles found in human beings?
17. List various functions of epithelial tissue.
18. Describe the process of crossing over. What is its significance?
19. Describe the structure of chloroplast.

    Or

    Draw a labelled diagram of female reproductive system of a cockroach.

20. Differentiate hyperglycemia and hypoglycemia.

21. A teenage girl accidently became pregnant. She stopped coming to college and also preferred to remain isolated. She was scared to inform her parents. One of her friends Sweta met her and came to know about the problem. She took her to a doctor and got her aborted. She convinced the parents and kept the matter concealed.

a. Did Sweta take the correct decision? What values did she show?

b. What is the medical term for abortion? What is the period which is considered safe for abortion?

c. What prevention may be taken to avoid pregnancy?

Section – D

22. Explain the system of ETS and oxidative phosphorylation.

    Or

a) Which one of the plant growth regulator would you use, if you are asked to:

   I. Induce rooting in a twig

   II. Quick ripening of a fruit

   III. Delay in leaf senescence

   IV. Induce immediate stomatal closure in leaves

   V. Increase length of a dwarf plant

b) Define photoperiodism.

23. Draw a labelled diagram of the detailed structure of a nephron.

Or

Write a note on two types of simple tissues with neat diagram.

Section-E (OTBA) Questions

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