



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe the structure and function of sucrose.

Or

- (b) Briefly explain the process of carbohydrate digestion.

12. (a) Discuss transamination reaction with example.

Or

- (b) Outline the biological functions of proteins.

13. (a) Describe the structure of compound lipids with example.

Or

- (b) Discuss the importance of cholesterol.

14. (a) Outline the IUB system of enzyme classification.

Or

- (b) Explain the induced fit model of enzyme action.

15. (a) Draw the structure and functions of Insulin.

Or

- (b) Describe the principles of AGE.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Give the individual reactions of TCA cycle and its significance.

17. Explain in detail about the classification of aminoacids with examples.

18. Elaborate on the  $\beta$  oxidation of fatty acids.

19. Discuss the structure of DNA and add a note on its types.

20. Describe the sources, functions and deficiency disorders of vitamin A.

