

NOVEMBER/DECEMBER 2018

BBT21 — BIOCHEMISTRY

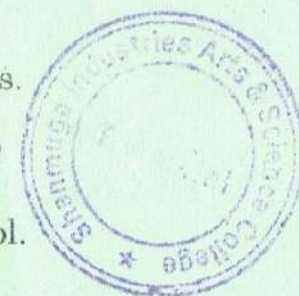
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is heteropolysaccharides?
2. Write the key enzymes involved in glycolysis.
3. What are essential aminoacids?
4. Give an example for basic aminoacids.
5. How lipids are absorbed in the body?
6. Write any two functions of cholesterol.
7. Define nucleoside.
8. Draw the structure of thymine.
9. Write any two deficiency disorders of vitamin D.
10. Write the functions of vitamin K.



SECTION B — ($5 \times 5 = 25$ 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 — ($3 \times 10 = 30$ 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 β 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.

