

Exam. Code : 107402

Subject Code : 2220

B.Sc. Bio-Technology Semester—II

BIOCHEMISTRY—II

Paper—BT-9

Time Allowed—3 Hours] [Maximum Marks—40

Note :— (1) Attempt **ALL** parts from Section-A. Each question carries 1 mark.

(2) Attempt any **FIVE** questions from Section-B. Each question carries 4 marks.

(3) Attempt any **TWO** questions from Section-C. Each question carries 6 marks.

SECTION—A

1. (i) Lipids
- (ii) Acylglycerol
- (iii) Structure of simplest amino acid
- (iv) Non-protein amino acids
- (v) Vitamin-C
- (vi) Cofactors
- (vii) Endocrine system
- (viii) Androgens.

SECTION—B

2. Classification of fatty acids.
3. Saponification.
4. Terpenes.
5. Give classification and biological functions of proteins.
6. What is the difference between primary and secondary structure of proteins ?
7. Comment on types of vitamins and their biological relevance.
8. Role of vitamins as cofactors. Explain with suitable examples.
9. Discuss the role of hormone on endocrine system of animal and humans.

SECTION—C

10. Write a note on general structure and function of major classes of lipid.
11. Discuss the forces stabilizing the protein structures.
12. What are vitamins ? Discuss the deficiency symptoms of vitamins.
13. Write a note on biological functions of steroidal and peptide hormones.