

Exam. Code : 107404

Subject Code : 2143

B.Sc. Bio-Technology 4th Semester

BIOCHEMISTRY

Paper—BT-3

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) Triacylglycerol
- (ii) Sphingolipids
- (iii) Cholesterol
- (iv) Essential aminoacids
- (v) Proline
- (vi) Basic aminoacids
- (vii) Nucleoside and Nucleotide
- (viii) Purines.

SECTION—B

2. Phosphoglycerides
3. Synthesis of fatty acids
4. Degradation of triacylglycerol
5. What is the difference between transamination and oxidative deamination ?
6. Urea cycle.
7. Comment on degradation of aminoacids.
8. Regulation on nucleotide biosynthesis.
9. Comment on de novo and salvage pathway of synthesis of purine nucleotides.

SECTION—C

10. Discuss the significance of lipid and their anabolism.
11. Write down the biosynthesis of cholesterol.
12. Write down aminoacids biosynthesis and their regulation.
13. Discuss biosynthesis and degradation of purines and pyrimidines nucleotides.