

Exam. Code : 107404

Subject Code : 2243

B.Sc. Bio-Technology Semester—IV

BIOCHEMISTRY—IV

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) Fatty acids
- (ii) Sphingolipids
- (iii) Steroids
- (iv) Phosphoglycerides
- (v) Glycine
- (vi) Transamination
- (vii) Nucleoside
- (viii) Purines and Pyrimidine.

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SECTION—B

2. Degradation of triacylglycerol.
3. Lipid metabolism.
4. What is difference between triacylglycerol and Phosphoglycerides ?
5. Cholesterol.
6. What is the difference between essential and basic amino acids ?
7. Comment on degradation of essential amino acids.
8. Biosynthesis of Purines and Pyrimidines.
9. Salvage pathway.

SECTION—C

10. What is the difference between α -oxidation and β -oxidation of fatty acids ? Discuss in detail.
11. Discuss the biosynthesis of cholesterol.
12. Write a note on regulation of amino acids biosynthesis.
13. Discuss the biosynthesis of nucleotides and its regulation.