

Class-B.Sc. (BT)-IV Sem
Subject – BIOCHEMISTRY

Paper- Theory

Time Allowed : 3 Hrs.

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

(1×8=8)

1. (i) B-oxidation
- (ii) Phosphoglycerides
- (iii) Steroids
- (iv) Fatty acid synthetase
- (v) Lysine
- (vi) Feedback inhibition
- (vii) Purine & pyrimidine
- (viii) Nucleoside

Section-B

(5×4=20)

2. Regulation of lipid metabolism.
3. Lipid Anabolism
4. Sphingolipids.
5. Transamination reactions

6. Urea Cycle
7. Comment on degradation of amino acids.
8. Degradation of purines & pyrimidines.
9. Salvage pathway.

Section-C

(6×2=12)

10. Mention the importance of lipid and discuss lipid catabolism.
11. Write down the biosynthesis and degradation of fatty acids.
12. Write down the biosynthesis and degradation of essential amino acids.
13. Discuss nucleic acid metabolism with emphasis to biosynthesis of nucleotides & its regulation.
