

**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**

(1x8=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**

(5x4=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**

(6x2=12)

10. Mention the importance of lipid and discuss lipid ~~metabolism~~ 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~~ metabolism with emphasis to biosynthesis of nucleotides & its regulation.

\*\*\*\*\*