

B.Sc. (Honours) Examination, 2019
Semester-IV
Yogic Art & Science
Course : BS-CT 403
(Fundamental of Biochemistry)

Time : 3 Hours

Full Marks : 70

Questions are of value as indicated in the margin

UNIT - I

1. What is Biochemistry? Explain the historical background of Biochemistry. 5
Or
Explain briefly on chemical receptors / co-receptors.
2. What is cellular respiration? Explain aerobic and anaerobic respiration. 10
Or
Explain with diagram of a cell and chief intracellular components.

UNIT – II

3. Classify Lipid and Protein with general functions. 10
Or
Explain Kreb's cycle with regulation of blood glucose.
4. Explain the concept of isomerism its type and mode of action. 5
Or
Explain briefly on regulation of glucogen metabolism.

UNIT – III

5. What do you mean by neurotransmitter and molecular basis of hormonal action. 10
Or
Explain in detail about enzymes, its clarification and nomenclature.
6. Explain the routine bio-chemical tests for kidney and related common diseases. 5
Or
Explain on the common metabolic disorders.

UNIT- IV

7. Define Carbohydrates. Explain the basic mechanism of Carbohydrate metabolism. What do you mean by Vitamin? 15
Or
Explain in detail about the clinical importance of Vitamin. 5+10=15

UNIT - V

8. Give brief note about (**any five**) : 5×2=10
a) Receptors b) Cell to cell communication c) Vitamins d) Bioenergetics
e) Oxidation and Reduction f) Osmosis and Diffusion