

**SECOND YEAR B.Sc. DEGREE (PARAMEDICAL COURSES)
[SUPPLEMENTARY] EXAMINATION, NOVEMBER 2019**

Medical Biochemistry

Paper VI—METABOLISM I—CARBOHYDRATES, LIPID AND AMINO ACID
METABOLISM

(2012 Admissions)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

I. Essays :

- 1 Describe the organization of Mitochondrial Electron Transport Chain.
- 2 Discuss the structure of Glutathione. Explain the importance of this compound.

(2 × 15 = 30 marks)

II. Briefly on :

- 3 Outline the process of Glycogenesis.
- 4 Mention salient features of Cholesterol Biosynthesis.
- 5 What is a Micelle ? Describe its role in Fat Absorption.

(3 × 10 = 30 marks)

III. Short notes on :

- 6 Amphibolic nature of Citric Acid Cycle.
- 7 Formation of Glucuronic Acid in the body.
- 8 Oxidative Phosphorylation.
- 9 De novo synthesis of fatty acids.
- 10 β -oxidation of Fatty acids.
- 11 Hartnup's disease.
- 12 Alkatonuria.
- 13 Any *four* Enzymes associated with Biological Oxidation.
- 14 Any *four* Lipotropic factors.
- 15 The major mechanisms for the removal of Ammonia from Liver and Brain.

(10 × 4 = 40 marks)