

[AHS 0321]

MARCH 2021

Sub. Code: 5017

(AUGUST 2020 EXAM SESSION)

B.Sc. MEDICAL LABORATORY TECHNOLOGY**SECOND YEAR (From 2010-2011 onwards)****PAPER II – BIOCHEMISTRY - I*****Q.P. Code : 725017*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Explain in detail about urea cycle and the clinical importance of elevated blood urea.
2. Write the dietary sources of Iron, daily requirements and explain the iron absorption, transport and storage.
3. What is glycolysis? Write the reactions and energetics of glycolysis.

II. Write notes on:**(8 x 5 = 40)**

1. Steps in cholesterol synthesis.
2. Biochemical functions of thyroid hormones, hypo and hyper thyroidism.
3. Heme catabolism.
4. Growth hormone and its function.
5. Energetics of TCA cycle.
6. Normal serum level of Uric acid, causes and clinical features of increased Uric acid level.
7. Glycogen synthesis.
8. Haemoglobin derivatives.

III. Short answers on:**(10 x 3 = 30)**

1. Define electrophoresis, mention its uses.
2. Creatinine and its normal serum level.
3. Biochemical functions of phosphate.
4. Myoglobin.
5. Diabetes insipidus.
6. Congenital erythropoietic porphyria.
7. Name 3 prostaglandins and its functions.
8. Normal serum level of calcium and clinical features of tetany.
9. Glucose transporters.
10. Albumin and its function.
