[LL 0817] AUGUST 2017 **Sub. Code: 5017**

B.Sc. MEDICAL LABORATORY TECHNOLOGY

SECOND YEAR

PAPER II – BIOCHEMISTRY - I

Q.P. Code: 725017

Time: Three Hours **Maximum: 100 Marks**

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. What is the normal plasma glucose level? What are the criteria for diagnosing diabetes mellitus? Describe how blood glucose level is regulated?
2. Describe the digestion and absorption of lipids.
3. How is iron absorbed, transported and stored in our body? Describe the condition in which there is iron deficiency and iron excess.

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

1. Describe transamination reaction with 2 examples. Name the coenzyme involved.
2. How is Carbondioxide transported in blood?
3. Write the steps of glycolysis.
4. Name the thyroid hormones. How is the level of thyroid hormone regulated?
5. Write the steps of uric acid formation.
6. Write the steps of cholesterol synthesis up to its rate limiting step.
7. Draw a diagram illustrating carnitine transport.
8. Biological function of female sex hormones.

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

1. Name three acute phase reactants.
2. Draw the oxygen dissociation curve.
3. Name the compounds formed from heme.
4. Name the disaccharide breaking enzymes present in intestine.
5. Name the non protein nitrogenous substances.
6. List the hormones produced by adrenal glands.
7. Name any three porphyrias.
8. Name three types of jaundice.
9. How is cerebrospinal fluid formed?
10. What deprivation test is done for the diagnosis of which disease? What was measured in this test?

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