

[LJ 0816]

AUGUST 2016

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 are the fat soluble vitamins? Describe the sources, Biochemical functions and deficiency manifestations of vitamin 'D'.
2. What is glycolysis? Discuss the reactions of glycolysis.
3. Classify amino acids. Describe the metabolism of phenylalanine and defects associated with it.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Describe Vanden Berg reaction.
2. Write about niacin and it's function.
3. Write in details about transamination.
4. Explain phenylketonuria.
5. Write in details about transport proteins.
6. Write about ceruloplasmin and it's clinical significance.
7. Source and Biochemical function of calcium.
8. What is hypothyroidism?

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define rickets.
2. Epimerism with examples.
3. Name the essential fatty acids.
4. What are the Bence – Jones proteins?
5. What are the methods of separation of lipoprotein?
6. What is isoenzyme?
7. Role of iron.
8. Write about Wilson's disease.
9. Explain bile salts.
10. Any two compounds derived from cholesterol.

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