

[LC 0212]

FEBRUARY 2013

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:**

**(3X10=30)**

1. Explain in detail the different steps in the anaerobic degradation of glucose. Add a note on its energetics.
2. How is cholesterol synthesized in the body? What are the functions of cholesterol?
3. Write the dietary sources, daily requirement, functions and deficiency features of calcium.

**II. Write Notes on: :**

**(8X5=40)**

1. Functions of glutathione
2. Complications of Diabetes mellitus
3. Purine salvage pathway
4. Hypothyroidism
5. Acute intermittent porphyria
6. Transamination reactions
7. Fatty acid synthase complex
8. Synthesis of prostaglandins

**III. Short Answers on:**

**(10X3=30)**

1. Mention any three glycogen storage disorders
2. Name three aminoacids involved in creatinine synthesis
3. What are the derivatives of tryptophan
4. Mention the functions oxytocin
5. Orotic aciduria
6. Mention any three applications of electrophoresis
7. What are the hormones of adrenal cortex
8. Role of bile salts in digestion of lipids
9. Importance of 2,3 bisphosphoglycerate
10. Rate limiting step of heme synthesis

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