

[LQ 0220]

FEBRUARY 2020

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. Discuss about the digestion and absorption of carbohydrates
2. Explain the pathway of cholesterol synthesis. Add a note on fate of cholesterol in the body.
3. Write the dietary sources of iron, daily requirements and explain the iron absorption, transport and storage.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Deficiency manifestations of mineral disorders.
2. Metabolism of phenylalanine and tyrosine.
3. Adrenal hormones and their functions.
4. Mechanism of transport of gases in our body.
5. Urea cycle.
6. Eicosanoids.
7. Types of porphyrias.
8. Pathway of pyrimidine degradation.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Fetal hemoglobin.
2. Sex hormones and their actions.
3. Gluconeogenesis.
4. Normal levels of serum calcium and phosphorous.
5. Emulsification.
6. Ketone bodies.
7. Hemochromatosis.
8. Spectrophotometer.
9. Diabetes insipidus.
10. Micelle.

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