



[KT 504]

AUGUST 2008

Sub. Code : 4055

FIRST M.B.B.S. DEGREE EXAMINATION

Revised (Non-Semester) Regulations

PAPER V – BIOCHEMISTRY - I

Q. P. Code : 524055

Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions

I. Essay Questions :

(2 x 15 = 30)

1. Explain the steps of beta oxidation of Palmitic acid. Add a note on Energetics.
2. What is Gluconeogenesis? Describe the pathway involved in Gluconeogenesis. Add a note on regulation of Gluconeogenesis.

II. Write Short notes on :

(10 x 5 = 50)

1. Functions of Vitamin C.
2. Digestion and absorption of lipids.
3. Hemoglobin S.
4. Isoenzymes.
5. Structure of cell membrane.
6. Define BMR. What are the factors that can affect BMR?
7. Define oxidative phosphorylation. Explain chemiosmotic theory.
8. Galactosemia.
9. Ketogenesis.
10. Glucose tolerance Test.

III. Short Answer Questions :

(10 x 2 = 20)

1. Name the Essential fatty acids.
2. Significance of HMP shunt pathway.
3. Benedicts test.
4. Inhibitors of citric Acid cycle.
5. Chloride shift.
6. Functions of calcium.
7. Lipotropic factors.
8. Normal blood levels of (a) Cholesterol (b) Bilirubin (c) Sodium (d) Pottasium.
9. Phospholipids.
10. Flurosis.

