

[KU 504]

FEBRUARY 2009

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. Sources & fate of acetyl CoA, Explain the denovo synthesis of cholesterol and its regulation.
2. Explain how pyruvate enters the Kreb's citric acid cycle for oxidation. How many ATPs are produced in this pathway.

II. Write Short notes on :**(10 x 5 = 50)**

1. Write a note on chemiosmotic theory.
2. Active transport.
3. Uronic acid pathway.
4. Insulin.
5. Wald's visual cycle.
6. Collagen.
7. Glycosaminoglycons (GAGS).
8. Chromatography.
9. Levels of organization of proteins.
10. Calcium Homeostasis.

III. Short Answer Questions :**(10 x 2 = 20)**

1. Key enzymes of glycolysis.
2. Fatty liver.
3. Lipid peroxidation.
4. Zymogens.
5. BMR.
6. Normal levels of :
 - (a) B.U.N
 - (b) Fasting Serum Glucose
 - (c) LDH
 - (d) ALT
7. t : RNA
8. Vitamin K
9. Limiting amino acid.
10. Isoenzymes.