

[LA 504]

FEBRUARY 2012

Sub. Code : 4055

**FIRST M.B.B.S. DEGREE EXAMINATION****Revised (Non-Semester) Regulations****PAPER V – BIOCHEMISTRY - I****Q. P. Code : 524055****Time : 180 Minutes****Maximum: 50 Marks**Answer **ALL** questions in the same order**I. Elaborate on :**

1. Describe the components and reactions of electron transport chain.  
Add a note on its inhibitors. **(1 x 10 = 10)**
2. Describe the dietary sources, daily requirement, biochemical function and deficiency symptoms of vitamin C. **(1 x 5 = 5)**

**II. Write Short notes on :****(10 x 2 = 20)**

1. Balanced diet
2. Causes of hypoglycaemia.
3. Allosteric inhibition.
4. Obesity.
5. Alkaptonuria.
6. Functions of mitochondria.
7. Glycosylated haemoglobin.
8. Neo glucogenesis.
9. Thalessemias.
10. Puring salvage path way.

**III. Short Answers on :****(15 x 1 = 15)**

1. Markers of nucleus and mitochondria.
2. Name 2 tumour markers.
3. Functions of phospho lipids.
4. Name the essential fatty acids.
5. Active forms of Thiamine and Riboflavin.
6. Name the ketone bodies.
7. Significance of rapaport – leubering cycle.
8. Name two glycogen storage diseases.
9. Significance of HMP shunt.
10. Name the derivatives of cholesterol.
11. Name the urea cycle disorder.
12. Causes of increased blood urea level.
13. Name the derivatives of tryptophan.
14. Fluorosis.
15. Parameter for the assessment of nutritive value of proteins.