

QP Code:103103

Reg.No.:.....

**PG Degree Supplementary Examinations in Biochemistry (MD) -
November 2014**

Paper III – Nutrition and Metabolism

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(20)

1. Classification and characteristics of lipoproteins. Add a note on national cholesterol education programme criteria for diagnosis of lipoprotein disorders.

Short essays:

(8x10=80)

2. Oxidative phosphorylation and its uncouplers
3. Define transamination and explain it by mentioning two examples
4. Describe the formation and excretion of bilirubin. Explain the significance of serum bilirubin and urobilinogen in the diagnosis of various types of jaundice.
5. Starvation induced ketonaemia.
6. Describe the salvage pathways for purine and pyrimidine synthesis.
7. Biochemical changes in kwashiorkor and marasmus.
8. Metabolic changes after 24 hours of starvation
9. Name any four B-complex vitamins with its active forms
