

QP Code : 104383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – January 2014
(Biochemistry)**

PAPER – IV GENERAL PHYSIOLOGY, NUTRITION & MINERAL METABOLISM

Time : 3 hrs.

Max. marks : 100

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

Essays:

(10x10 = 100)

1. Discuss about glucose transporters and its clinical significances.
2. What is oxygen dissociation curve. Discuss the factors affecting ODC.
3. Name the essential amino acids. Explain the importance of proteins in the diet.
4. List out the causes of iron deficiency. Add a note on conservation of iron in the body.
5. Mention the coagulation factors dependent on vitamin K and discuss about anticoagulants.
6. What are the different forms of serum calcium. Discuss the regulation of calcium level.
7. Discuss the role of glutathione in free radical scavenging and add a note on lipid peroxidation.
8. Mention the proteins present in myofibrils and describe about the most abundant protein in muscle.
9. Mention any five trace elements. Discuss the importance of copper in the body and add a note on Wilson's disease.
10. Describe the features of kwashiorkor & marasmus and add a note on biochemical alterations in these conditions.
