

QP Code : 104383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – October 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. What is Bohr effect. Discuss about transport of carbon dioxide.
2. Discuss the digestion of proteins and add a note on meister cycle.
3. What is meant by balanced diet and prescribe diet for a lactating woman.
4. What is BMR. Discuss the factors affecting it and the methods for measuring BMR.
5. Define free radicals and describe the free radical scavenging mechanisms in the body.
6. Name any two non-heme iron containing proteins and discuss about the absorption of iron.
7. Discuss the salient features and the biochemical alterations in protein energy malnutrition.
8. What is meant by trace elements. Discuss the importance of selenium and zinc in the body.
9. Name the coagulation factors and discuss the intrinsic and extrinsic pathway of coagulation.
10. What is sarcomere. Mention the sequence of events in contraction and relaxation of skeletal muscle.
