

QP Code : 104383

Reg . No.....

**First Year M.Sc. MLT Degree Supplementary Examinations – August 2013
(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. Explain the digestion and absorption of carbohydrates
2. Describe the mechanism of detoxification
3. What are free radicals and list examples. Enumerate the biological effects of reactive oxygen species and then role of enzymatic antioxidants
4. Define basal metabolic rate (BMR). Enumerate the factors influencing BMR.
5. Explain protein energy malnutrition
6. Discuss the sources and recommended daily allowance of calcium. Explain the regulation of serum calcium level.
7. Explain the absorption, transport and deficiency manifestations of iron
8. Define balanced diet. Formulate balanced diet for a college student
9. Explain effect of 2,3 BPG and isohydric carbon dioxide transport
10. Describe the cascade of blood coagulation process.
