

QP Code : 104383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations - February 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. What is meant by detoxification. Mention the different reactions in the three phases with example. Add a note on the role of cytochrome P450, in detoxification. (2+6+2)
2. Explain the following and add a note on its clinical importance:
 - Oxygen dissociation curve
 - Bohr's effect(5+5)
3. Define BMR. What are the factors which influence the Basal metabolic rate.
4. Short notes : • Nitrogen balance • Functions of copper and Wilson disease (5+5)
5. Explain absorption , transport and deficiency of iron. (4+4+2)
6. Discuss the role of myosin and actin in muscle contraction.
7. Name the coagulation factors in the zymogen form and their activation factor. Add a note on hemophilia A. (6+4)
8. Explain : • Sources and biochemical functions of magnesium • Functions of potassium and hyperkalemia (5+5)
9. Explain : • Glycemic index • Steatorrhoea. (5+5)
10. Short notes: • Anti oxidants • Lactose intolerance. (5+5)
