

QP Code : 103383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – September 2016
(Biochemistry)**

PAPER – III VITAMINS AND HORMONES

Time : 3 hrs.

Max. marks : 100

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

Essays:

(10x10 = 100)

1. Discuss thiamine with reference to the following: sources , coenzyme form and mention two reactions, daily requirements and deficiency manifestations.
2. Classify hormones and explain the mechanism of action of steroid hormones.
3. Explain vitamin K cycle and the role of vitamin k in coagulation..
4. Enumerate the disorders of the thyroid. Mention the diagnostic criteria to evaluate a case of hypothyroidism. Add a note on anti –TPO (Antibodies to thyroid peroxidase).
5. Describe the components and mechanism of action of G protein receptor system.
6. Name any three pancreatic hormones and its functions. Discuss the mechanism of action of insulin.
7. Discuss briefly the sources, different co-enzyme forms, daily requirements and deficiency symptoms of vitamin B₁₂.
8. Discuss briefly the pro-vitamin and active forms, mechanism of action , daily requirements and deficiency symptoms of vitamin D.
9. Mention any two methods for the quantitative estimation of cortisol . Discuss the interpretation of the diurnal serum cortisol levels and ACTH stimulation test
10. Discuss Wald's visual cycle and riboflavin
