

QP Code: 103383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations November 2018
(Biochemistry)**

Paper III - Vitamins and Hormones

Time: 3 hrs.

Max. marks: 100

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

Essays:

(10x10=100)

1. Discuss the mechanism of action of epinephrine. Explain their role in metabolism.
2. Discuss the metabolic role and clinical aspect of estrogen.
3. Discuss the chemistry, biological functions, deficiency manifestations and methods of estimation of riboflavin.
4. Describe the antioxidant activity of any two vitamins with deficiency disorders.
5. Discuss the role of any two vitamins as co-enzymes. Add a note on their deficiency manifestations.
6. Give an outline of mechanism of action of insulin. Discuss the clinical aspect of the insulin receptor defects.
7. What are the anterior pituitary hormones. Discuss the biological role of growth hormone with associated disorders.
8. Describe the mechanism of action and metabolic role of parathormone.
9. Explain the role of vitamin K in blood coagulation and oxidative phosphorylation. Why vitamin K is deficient in obstructive jaundice.
10. Discuss the chemistry, biological functions, deficiency manifestations and methods of estimation of niacin.
