

QP Code : 103383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – January 2014  
(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 formation and functions of thyroid hormones.
2. Discuss the role of hormones in regulation of blood calcium level.
3. Name the hormones of neurohypophysis and discuss its biological functions.
4. Coenzyme functions of folic acid and add a note on folate antagonists.
5. Explain the chemistry, biochemical role and deficiency manifestations of vitamin K.
6. Name the different forms of vitamin A. Discuss the biological functions of vitamin A.
7. Name the catecholamines and discuss its formation & functions.
8. Explain the biological functions of vitamin B<sub>1</sub>. Add a note on its deficiency manifestations.
9. Name the hormones acting through cyclic AMP and discuss the signal transduction through G protein.
10. Classify hormones based on mechanism of action and discuss the role of mineralocorticoids in maintaining homeostasis

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