

QP Code: 103383

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
December 2019
(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 chemistry, biological functions, deficiency manifestations and methods of estimation of vitamin B₁₂.
2. Define and classify hormones. Describe the mechanism of hormonal action.
3. Give an outline of synthesis of thyroid hormones. Discuss the diagnostic tests for hormonal disorders of thyroid.
4. Discuss the chemistry, biological functions, deficiency manifestations and methods of estimation of vitamin D.
5. Discuss the diagnostic tests for folate deficiency. Add a note on folate antagonists.
6. Define and classify second messengers. Discuss the mechanism of their action.
7. Enumerate the adrenal hormones. Discuss the disorders associated with aldosterone.
8. What are the water soluble vitamins. Elaborate on thiamine deficiency disorders and their diagnosis.
9. Discuss the functions and deficiency manifestations of vitamin A. Give a brief outline of visual cycle.
10. Describe the vitamin K cycle. How does warfarin interfere with vitamin K.
