QP Code: 103383

First Year M.Sc. MLT Degree Examinations November 2017 (Biochemistry)

PAPER - III VITAMINS AND HORMONES

Time: 3 hrs.

Max. marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(10x10 = 100)

- 1. Classify vitamins. Discuss the chemistry, biological importance, deficiency manifestations and methods of estimation of vitamin C.
- 2. Discuss the formation, biochemical role and deficiency manifestations of vitamin D
- 3. Describe the factors that regulate receptor activity.
- 4. Discuss the synthesis of thyroid hormones. Enumerate the tests that assess the metabolic role of thyroid hormones.
- 5. Describe the co-enzyme role of pyridoxine and the conditions leading to its deficiency.
- 6. Discuss the formation of cortisol. What are the tests done in a patient with Cushing's syndrome
- 7. Explain the vitamin K cycle. How does warfarin interfere with vitamin K
- 8. Classify second messengers and discuss their mechanism of action.
- 9. Folate antagonists.
- 10. Enumerate the tests to assess thiamine deficiency.
