

QP Code: 103383

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
August 2022
(Biochemistry)**

Paper III - Vitamins and Hormones

Time: 3 hrs.

Max. marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers*
- *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays:

(10x10=100)

1. Elaborate on biological functions and deficiency manifestations of vitamin A. (5+5)
2. Describe the mechanism of action of cortisol. Discuss the clinical significance of serum cortisol. (4+6)
3. What are the posterior pituitary hormones. Discuss their functions and clinical significances. (3+4+3)
4. What are the deficiency manifestations of vitamin D.
5. Discuss the metabolic role and associated disorders of catecholamines (5+5)
6. Explain scurvy. Explain the clinical features, diagnosis and management of scurvy. (2+4+2+2)
7. Describe the endocrine functions of pancreas.
8. Classify hormones and write in detail about mechanism of hormone action. (4+6)
9. What are the pituitary 'tropins'. Describe the chemistry, regulation of secretion and functions of thyrotrophic hormone. (2+3+3+2)
10. What are the 'active' forms of thiamine, pyridoxine and vitamin B₁₂. Describe their metabolic role. (3+2+2+3)
