QP Code: 103383 Reg. No......

First Year M.Sc. MLT Degree Regular/Supplementary Examinations August 2024 (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. Enumerate the biochemical functions of vitamin A. Explain in detail the role of Vitamin A in vision. Add a note on deficiency manifestations of Vitamin A (2+5+3)
- 2. Classify hormones based on their mechanism of action. Write in detail the mechanism of action of steroid hormones. (5+5)
- 3. Describe the synthesis and secretion of thyroid hormones. Add a note on its regulation. (6+4)
- 4. Discuss the absorption, co-enzyme role and methods of estimation of Vitamin B_{12} . (2+5+3)
- 5. Name the posterior pituitary hormones. Explain in detail the biological functions and clinical significance of any one of them (1+5+4)
- 6. Give a detailed account of adrenal function tests.
- 7. Discuss the clinical significance and methods of estimation of serum prolactin. (5+5)
- 8. Elaborate on the biological functions and clinical significance of progesterone. (5+5)
- 9. Explain in detail the role of hormones involved in calcium homeostasis.
- 10. Explain the mechanism of action and biochemical role of insulin. (5+5)
