

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

M.Sc. MLS (Biochemistry) (2018 Batch) (Sem.-3)

CLINICAL BIOCHEMISTRY-II

Subject Code : MMLT-301-18

M.Code : 76876

Date of Examination : 23-06-2025

Time : 3 Hrs.**Max. Marks : 75**

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries FIFTEEN marks.

1. Define enzymes. Write its classification. Explain different method of estimation of enzymes. Write its clinical conditions leading to abnormal level of SGOT, SGPT, alkaline phosphatase, acid phosphatase, amylase, CPK.
2. Explain the role of FSH, LH and testosterone in human body. Mention the assay and range of hormone and abnormal clinical conditions.
3. Distinguish between fat-soluble and water-soluble vitamin. Discuss in detail the different method of estimation of all type of vitamin.
4. Write the synthesis of vitamin D in human body. Discuss clinical conditions leading to abnormal levels of vitamin A, ascorbic acid and vitamin D₃.
5. Discuss the principle, assay of barbiturates, urobilinogen, opiates and organophosphorus. Mention the clinical condition related to abnormal level.
6. Write in detail about thyroid hormone with synthesis of T₃ and T₄. Mention the disorder cause due to abnormal level of thyroid hormone.
7. What is the significance of zinc, magnesium and lithium in human body? Write the estimation technique of the mentioned mineral with its clinical condition.
8. Write glycolysis cycle, TGA cycle and urea cycle. Discuss quality control and standardization.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.