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Total No. of Pages : 01

Total No. of Questions : 08

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

**CLINICAL BIOCHEMISTRY-II**

Subject Code : MMLT-301-18

M.Code : 76876

Date of Examination: 12-12-2022

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

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

1. Explain in detail about thyroid and pregnenediol. What is the method of their estimation?
2. What are vitamins? Write down the classification of vitamins. Explain method of estimation and normal value of vitamin B<sub>3</sub> in different body fluids.
3. Explain about various enzymes released from liver, their method of estimation, principles of assay, normal value and medical conditions leading to their abnormal levels.
4. Explain the method of quality control and standardization of cholesterol, and proteins.
5. Explain about Human chorionic gonadotropin, its normal value, functions, conditions for abnormal value, and method of estimation.
6. What do you mean by minerals? What are the different functions of minerals? Write down the estimation method and normal range of sodium, and lithium.
7. Explain the principle of assay of organophosphates, and Vitamin C.
8. Write in detail about assay of :
  - a. Urobilinogen
  - b. CPK

**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.**