

Roll No.

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M.Sc MLS (Biochemistry) (Sem.-1)

ANALYTICAL AND PHYSICAL BIOCHEMISTRY

Subject Code : MMLT-102-18

M.Code : 75410

Date of Examination : 20-06-2025

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 osmosis and osmotic crisis. Write importance of transportation across membrane-by-membrane proteins.
2. Explain weak acids and weak bases with example and detailed note on Henderson-Hasselbalch equation.
3. Write a detailed note on bioenergetics and enzyme involved in oxidation and reduction.
4. Describe in detail about mechanism of protein folding in terms of free energy changes.
5. Explain different methods for determination of hormones by using RIA.
6. Write a detailed account on FPIA.
7. **Write a shote note on :**
 - a) Chemiluminescence
 - b) Electrolytes and Dialysis.
8. **Write a detailed note on :**
 - a) ELISA
 - b) Titration curve of weak acids.

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.