

**Roll No.**

**Total No. of Pages : 01**

**Total No. of Questions : 08**

**M.Sc MLS (Biochemistry) (2018 Batch) (Sem.-1)**  
**ANALYTICAL AND PHYSICAL BIOCHEMISTRY**

**Subject Code : MMLT-102-18**

**M.Code : 75410**

**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) Give a detailed note on the ionization of weak acids.
- 2) What are physiological buffers? Discuss their importance.
- 3) Write a short note on :
  - a) pH
  - b) Bioluminescence
- 4) Write detailed notes on micro particle enzyme immunoassay (MEIA).
- 5) Describe in detail various methods for the purification of proteins.
- 6) What is biological oxidation? Discuss its biomedical importance.
- 7) Discuss structure of cell membrane. Describe in detail the transport of molecules across by membrane proteins.
- 8) Write detailed notes on surface tension. Discuss its biomedical importance.

**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.**