

**Roll No.**

**Total No. of Pages : 01**

**Total No. of Questions : 08**

**M.Sc. MLS (Biochemistry) (Sem.-2)**

# BIOCHEMICAL TECHNIQUES

**Subject Code : MMLT-201-18**

**M.Code : 76189**

**Date of Examination : 12-12-22**

**Time : 3 Hrs.**

**Max. Marks : 75**

**INSTRUCTIONS TO CANDIDATES :**

- 1. Attempt any FIVE questions out of EIGHT question.**
- 2. Each question carry FIFTEEN marks.**
1. Write a detailed note on zonal and capillary electrophoresis. Also list their applications.
2. What is ultracentrifugation? Discuss basic principle and applications of various types of ultracentrifugation.
3. Write detailed notes on :
  - a) FSC and SSC in flow Cytometry
  - b) Cellulose acetate electrophoresis.
4. Describe general principle, methodology and applications of molecular exclusion chromatography.
5. What is a flame photometer? Discuss construction, working and applications of flame photometer.
6. What is ultracentrifugation? Discuss basic principle and applications of various types of ultracentrifugation.
7. Write notes on:
  - a) Immunoaffinity
  - b) Applications of radioactivity in biological science.
8. What is chromatography? Explain in detail the principle, working and applications of HPLC.

**NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.**