

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 : 04-07-22

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT question.
 2. Each question carry FIFTEEN marks.
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1. Explain the principle, instrumentation and applications of UV spectroscopy in detail.
 2. What are the basic principles of ultracentrifugation? How molecular mass and purity of macromolecules can be determined through it?
 3. Define radioactivity. What are the various methods for detection and measurement of radioactivity?
 4. What is chromatography? Give principle, practical requirements and applications of thin layer chromatography.
 5. Give principle and instrumentation involved in separation through gas chromatography.
 6. Define electrophoresis. Discuss zonal and capillary electrophoresis in detail.
 7. Write an exhaustive note on principle, instrumentation and applications of flow cytometry.
 8. Write short notes on :
 - a) Beer-Lambert's Law.
 - b) Molecular exclusion chromatography.
 - c) Gel electrophoresis.

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.