

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(MLS) (2013 to 2017) (Sem.-3)

ANALYTICAL BIOCHEMISTRY

Subject Code : BMLS-305

M.Code : 48110

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students has to attempt any **TWO** questions.

SECTION-A

1) Answer briefly :

- Discuss Lambert's law.
- What is a standard?
- What is a stationary phase?
- What is monochromatic light?
- What is ground state of an atom?
- Discuss the applications of HPLC.
- Name various parts of a spectrophotometer.
- What is the significance of a control?
- What do we mean by void volume?
- Discuss principle of gel chromatography.

SECTION-B

- 2) Write any six applications of electrophoresis and their advantages and disadvantages.
- 3) Explain principle, method and applications of ion exchange chromatography.
- 4) Give principle and limitations of Flame photometry.
- 5) Write a short note on hydrophobic interactions.
- 6) Explain principle, applications, advantages and disadvantages of using gas chromatography.

SECTION-C

- 7) Define Electrophoresis. Explain PAGE and isoelectric focusing in detail.
- 8) Define Chromatography. Explain principle, application, advantages and disadvantages of using column chromatography.
- 9) Explain Beer and Lambert's law. Write at least six applications of colorimetry and spectrophotometry. Put some words also about advantages of using spectrophotometer.

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.