**Roll No.** | | | | | | | | | | | | **Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Sc.(MLS) (Sem.–3)**

# ANALYTICAL BIOCHEMISTRY

**Subject Code : BMLS302-18**

**M.Code : 93328**

**Date of Examination : 13-01-23**

**Time : 3 Hrs.** **Max. Marks : 60**

**INSTRUCTIONS 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 have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

## SECTION-A

**1 Write briefly :**

a) Differentiate between calorimetry and spectrophotometry.

b) Applications of flame photometry

c) Principle of Gel electrophoresis

d) Eddy's Diffusion

e) Isocratic elution

f) Selection stationary phase for chromatography

g) Lambert's Law

h) Anion exchangers

i) Plate theory

j) Application of Flame Photometry.

## SECTION-B

2. Write a note on Lambert-Beer Law.

3. Discuss the energy source used for AAS.

4. Write about the instrumentation of Gas Chromatography.

5. Elaborate the principle and instrumentation of Paper electrophoresis.

6. Give application of colorimetry and spectrophotometry using suitable examples.

## SECTION-C

7. Discuss in detail about the principle, methodology and application of paper chromatography.

8. Elaborate, the principle, instrumentation and application of Flame photometry.

9. Give the details of Column chromatography.

**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**.