

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc. (MLS) (Sem.-3)**  
**ANALYTICAL BIOCHEMISTRY**

Subject Code : BMLS-302-18

M.Code : 76631

Date of Examination : 17-05-23

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) Define Chromatography.
- b) Principle of flame photometry.
- c) Application of Gel electrophoresis.
- d) Rate theory.
- e) Principle of AAS.
- f) Selection of column for chromatography.
- g) Beer Law.
- h) Stationary phase for paper chromatography.
- i) Selection of solvent for chromatography experiment.
- j) Advantages of Gel chromatography.

### SECTION-B

2. Write a note on deviation of Lambert-Beer Law.
3. Discuss the energy source used for flame photometry.
4. Write about the detectors used in Gas Chromatography.
5. Elaborate the principle and instrumentation of Gel electrophoresis.
6. Give application of colorimetry and spectrophotometry using suitable examples.

### SECTION-C

7. Discuss in detail about the principle, methodology and application of thin layer chromatography.
8. Elaborate the principle, instrumentation and application of AAS.
9. Give the details of Ion exchange 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.**