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 : 76631

Date of Examination : 14-12-22

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 gel electrophoresis.

b) What is the role of monochromator in UV spectrophotometer?

c) What are Chromophores?

d) Write down the application of atomic absorption spectroscopy.

e) Discuss types of bending in IR vibrations.

f) Discuss the principle of flame photometry.

g) Give the application of Gel electrophoresis.

h) What is shielding and deshielding in NMR?

i) Enlist gases used in HPTLC.

j) Enlist some adsorbents used in columnchromatography?

SECTION-B

2. Discuss the various deviations of beer's lambert law.

3. Discuss Mc Lafferty rearrangement.

4. Explain the instrumentation of Flame photometry.

5. Explain the instrumentation of Gel electrophoresis.

6. Write a short note on ion exchangers.

SECTION-C

7. Give the principle of UV spectroscopy. Explain the instrumentation associated with UV visible spectroscopy.

8. Write a detailed note on Gel chromatography with its principle, application and advantages.

9. Define Chemical Shift. Discuss the factors affecting Chemical Shift.

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.