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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 : 16-05-2023

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 spectrophotometry.
- b) Give applications of colorimetry.
- c) Write the principle of photometry.
- d) What is chromatography and explain its types?
- e) Write the principle of separation in thin layer chromatography.
- f) Give the principle of gel chromatography.
- g) Write applications of ion exchange chromatography.
- h) Define Analytical Biochemistry.
- i) What is the principle of electrophoresis?
- j) Give the name of carrier gases in gas chromatography.

SECTION-B

2. Write a short note on flame photometry.
3. Give principle, techniques and applications of paper chromatography
4. State the Lambert's and beer's law.
5. Give principle and methodology involved in paper electrophoresis.
6. Explain various detectors used in gas chromatography.

SECTION-C

7. Write a detailed note on principle, instrumentation and applications of column chromatography.
8. Discuss the principle and instrumentation of ion-exchange chromatography.
9. Write in brief about :
 - a) Atomic absorption spectroscopy
 - b) High performance thin layer 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.