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Total No. of Pages : 02

Total No. of Questions : 18

B.Sc. (MLS) (2018 Batch) (Sem.-3)

**ANALYTICAL BIOCHEMISTRY**

Subject Code : BMLS302-18

M.Code : 76631

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**

**Write briefly :**

- 1) What is the function of prism in spectrophotometer?
- 2) What is R<sub>f</sub> value?
- 3) What types of solvent are generally employed in chromatography?
- 4) What are cations?
- 5) What does a monochromator do in a spectrophotometer?
- 6) What is void volume?
- 7) Which region of the electromagnetic spectrum gives highest energy photons?
- 8) Write full form of SDS-PAGE.
- 9) What is matrix?
- 10) What is retention time?

### SECTION-B

- 11) Give principle and application of atomic absorption spectroscopy.
- 12) Give the method, principle and applications of thin layer chromatography.
- 13) What is a standard curve? What is its utility in analyte estimation?
- 14) Discuss in detail the principle and working of a flame photometer.
- 15) Give the method, principle and applications of agarose gel electrophoresis.

### SECTION-C

- 16) Discuss principle, method and applications of ion exchange chromatography.
- 17) What is Beer-Lambert's Law? Give the theory and applications of Beer- Lambert's Law.
- 18) What is native gel electrophoresis? Discuss the theory, procedure and applications of native gel electrophoresis.

**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.**