

Exam. Code : 107405
Subject Code : 1747

B.Sc. Biotechnology 5th Semester
BIOPHYSICAL & BIOCHEMICAL TECHNIQUES-A

Paper : BT-6

Time Allowed—3 Hours [Maximum Marks—40]

Note :- Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION-A

1. Discuss different types of rotors of a centrifugation machine. Explain the applications of various types of rotors and also explain the care of rotors.
2. (a) Define centrifugation. Describe the differential centrifugation.
(b) Write a note on Sedimentation co-efficient.

SECTION-B

3. (a) What is thin layer chromatography ? Give its principle and discuss its applications.
(b) Write a note on Partition co-efficient.
4. Describe the principle and applications of ion-exchange chromatography.

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(Contd.)

SECTION-C

5. Describe the principle and applications of Fast Protein Liquid chromatography.
6. Discuss in detail the principle and applications of gas liquid chromatography.

SECTION-D

7. (a) Discuss in detail the theory and principles of visible spectroscopy.
(b) Write a note on molar extinction co-efficient.
8. Discuss in detail the ESR along with its applications.

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