

Regd.No: 21315202

**(BC N - 2325)**  
**B.Sc Degree (CBCS) Examinations-September - 2022**

**SEMESTER-II**  
**ANALYTICAL TECHNIQUES**

TIME: 3 Hrs

Max Marks:60

**SECTION - A**

II. Answer any FIVE of the following questions (5X4= 20 M)  
(Draw the diagrams/ flow-charts where-ever required)

1. Differential centrifuge.
2. Potter- Elvehjem.
3. How to calculate Rf value in paper chromatography?
4. Principle of Ion Exchange Chromatography.
5. Emission Spectroscopy.
6. Half-life of radioactive metals.
7. Agarose Gel Electrophoresis.
8. Applications of Iso-electro focusing electrophoresis.
9. Electron microscope- Principle.
10. Preparation of growth media.

**SECTION -B**

III. Answer ALL the following essay questions (5 x 8 M = 40 M)

(Draw the diagrams/ flow-charts where-ever required)

11. a) What are the methods of tissue homogenization? Explain in detail.

OR

b) Write about the principle and applications of Preparative centrifugation.

12. a) Explain the principle, choice of adsorbent and solvent preferred and applications of Paper Chromatography.

OR

b) Write about the principle and applications of HPLC.

(P.T.O)