

(3 Hours)

Total Marks: 80

- NB: (1) Question No.1 is compulsory
- (2) Attempt any 3 questions out of remaining 5 questions
- (3) Each question is of 20 marks
- (4) Figures to right indicates full marks

- Q1. Write Short Notes on – (Attempt any four) (20M)
- Sedimentation velocity
  - Planar Chromatography
  - Immunoelectrophoresis
  - Autoradiography
  - Extinction coefficient
- Q2. A. Explain the functioning of density gradient centrifugation. (10M)
- B. Explain Gas Chromatography in detail. (10M)
- Q3. A. Explain SDS – PAGE Electrophoresis in detail. (10M)
- B. Explain Beer Lambert's Law. (10M)
- Q4. A. Explain Geiger – Muller Scintillators. (10M)
- B. Explain capillary Electrophoresis. (10M)
- Q5. A. Explain HPLC. (12M)
- B. Explain affinity chromatography. (8M)
- Q6. A. Explain agarose gel electrophoresis. (10M)
- B. Explain the use of tracer techniques in life sciences. (10M)