

(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

1. (a) Autoradiography (5)
 (b) Applications of UV visible spectroscopy (5)
 (c) Limitations of Beer Lambert's Law (5)
 (d) Capillary electrophoresis (5)
2. a) Write a note on different types of centrifuges. (10)
 b) Describe in detail about Differential Centrifugation. (10)
3. a) Enlist and elaborate different factors affecting electrophoretic mobility (10)
 b) Elaborate the principle and working of Agarose Gel Electrophoresis. (10)
4. a) Discuss the Instrumentation, working and types of detectors used in Gas Chromatography. (10)
 b) Discuss mechanism of Affinity Chromatography. (10)
5. a) Enlist and elaborate different techniques of radioactive labelling. (10)
 b) Write a note on Geiger Muller method of detection and measurement of radioactivity. (10)
6. a) Describe principle and instrumentation of visible spectrophotometry. (10)
 b) Describe the absorption spectra and Beer Lambert's Law of absorption (10)