

SE. Sem - IV (Biotech) old
Analytical methods in Biotech

04/6/14

28

Q P Code : NP-19815

(3 Hours)

[Total Marks : 80]

- N.B. : (1) Q. No. 1 is compulsory.
(2) Attempt any three of the remaining five questions.
(3) All questions carry equal marks.

1. Write short notes on - Attempt any four. 20
- (a) Vander waal's forces
 - (b) Column chromatography
 - (c) Pore size
 - (d) Capillary electrophoresis
 - (e) Ionization chamber
2. (a) Which are the various types of centrifugation techniques? Explain each of them. 10
(b) What is Beer-Lambert's law? Explain? 10
3. (a) Explain the working of HPLC. 10
(b) Explain the working of Geiger-Muller scintillator. 10
4. (a) Explain Ion exchange column chromatography. 10
(b) How is tracer technique used in medical biotechnology. 10
5. (a) Explain the working of Gas chromatography. 10
(b) Explain the working principle of SDS-PAGE. 10
6. (a) Explain the working of agarose gel electrophoresis. 12
(b) What is size exclusion chromatography. 8