

Code: 9R01701

B.Pharm IV Year I Semester (R09) Supplementary Examinations June 2017

PHARMACEUTICAL ANALYSIS – II

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain auxochromes and chromophores with examples.
(b) Explain with a neat labeled diagram of instrumentation of infrared spectroscopy. Describe different parts and its working.
- 2 (a) Explain chemical shift in NMR. Explain factors affecting chemical shift.
(b) Draw a neat labeled diagram of Mass spectrometry. Explain construction and working of Time of Flight Analyzer.
- 3 (a) Add a note on Differential Thermal Analysis (DTA).
(b) Add a note on X-ray Diffraction Study (XRD).
- 4 (a) Explain principle and applications of Circular Dichroism.
(b) Write a note on Radioimmunoassay.
- 5 (a) Explain principle of fluorimetry. Describe factors affecting intensity of fluorescence.
(b) Give applications of fluorimetry in pharmaceutical analysis.
- 6 (a) Explain any three different types of detectors used in Gas chromatography with neat labeled diagram.
(b) Define resolution and capacity factor. Explain factors affecting resolution in Gas chromatography.
- 7 (a) Differentiate between HPLC and HPTLC.
(b) Add a note on columns used in HPLC.
- 8 (a) Explain the principle and applications of electrophoresis.
(b) Write a note on Gel electrophoresis.
