

Code: 13R00604

R13

B.Pharm III Year II Semester (R13) Supplementary Examinations December 2016

PHARMACEUTICAL ANALYSIS – II

Time: 3 hours

Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) List out the detectors used in IR spectroscopy.
 - (b) What is monochromator? List out the types of monochromator.
 - (c) State nitrogen rule.
 - (d) Differentiate ESR and NMR.
 - (e) Differentiate nephelometry and turbidimetry.
 - (f) Write any two applications of fluorimetry in pharmaceutical analysis.
 - (g) List out the methods of production of X ray.
 - (h) Differentiate optical activity and optical purity.
 - (i) List out the parameters used in GC analysis.
 - (j) Define isocratic and gradient elution.

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

- 2 Explain briefly about the laws governing the absorption of radiation.
- OR**
- 3 Draw a neat label sketch of FT-IR spectrophotometer. Explain about its parts.

UNIT - II

- 4 Define chemical shifts. Explain briefly about the factors influencing chemical shift.
- OR**
- 5 Explain briefly about the ionization techniques used in mass spectroscopy.

UNIT - III

- 6 Explain the factors influencing the fluorescence intensity.
- OR**
- 7 Discuss the instrumentation of AAS and write the applications of pharmaceutical analysis.

UNIT - IV

- 8 Discuss the principle & procedure involved in RIA.
- OR**
- 9 Derive Bragg's equation.

UNIT - V

- 10 Differentiate HPLC and HPTLC.
- OR**
- 11 Explain briefly about the derivatization techniques in GC.
