

B.Pharm III Year II Semester (R13) Supplementary Examinations December 2017

PHARMACEUTICAL ANALYSIS – II

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define chromophores.
 - (b) Give four applications of IR spectrometry.
 - (c) What is spin lattice relaxation?
 - (d) What are ghost peaks?
 - (e) Draw a well labeled diagram of flame zone with regions.
 - (f) Give primary effects of photo process.
 - (g) How will you compare polymorphs?
 - (h) What do you know about Bremsstrahlung?
 - (i) Name the carrier gas used in GLC.
 - (j) Enlist basic components of HPLC.

PART – B

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

UNIT – I

- 2 State and explain Beers-Lamberts law along with its deviations.

OR

- 3 What is IR fingerprint region? Explain IR dispersive instrument.

UNIT – II

- 4 Explain shielding and deshielding. Discuss coupling constant "J".

OR

- 5 Describe electron impact ion source used in mass spectrometry.

UNIT – III

- 6 Explain phenomenon of fluorescence along with the factors affecting on it.

OR

- 7 Give principle, instrumentation and applications of Nephelo turbidimetry in pharmaceutical analysis.

UNIT – IV

- 8 What are ORD and CD? Give its applications. Discuss octants rule.

OR

- 9 Describe Enzyme Linked Immunosorbent Assay (ELISA).

UNIT – V

- 10 Explain theory of gas chromatography along with detectors used in GC.

OR

- 11 What is RP-HPLC? Discuss columns and pumps used in HPLC analysis.
