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B.Pharm II Year II Semester (R15) Regular Examinations May/June 2017 PHARMACEUTICAL ANALYSIS – I

Time: 3 hours

1

Max. Marks: 70

PART – A

(Compulsory Question)

- Answer the following: (10 X 02 = 20 Marks)
 - (a) Define significant figure.
 - (b) Define Lewis acid and base with example.
 - (c) Write indicators used in complexometric titration.
 - (d) Define adsorption indicator with example.
 - (e) Give Nernst equation with notations.
 - (f) Define specific conductance.
 - (g) Define resonance, fluorescence and Stokes shift.
 - (h) Enlist different atomizers used in AAS.
 - (i) Define unpolarised and plane polarised light.
 - (j) Enlist the main parts of polarimeter.

PART – B

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

UNIT – I

- 2 (a) Explain different types of errors with examples.
 - (b) Explain the various methods to minimize the errors.

OR

- 3 (a) Define solubility product and explain its effects.
 - (b) Explain the principle and reaction involved in the assay of sodium benzoate.

UNIT – II

- 4 (a) Describe the different types of complexometric titration with suitable examples.
 - (b) Explain the principle involved in the complexometric titration with suitable example.

OR

- 5 (a) Describe permanganometry and iodimetry with reactions.
 - (b) Explain the principle and reaction involved in the assay of copper sulphate.

UNIT – III

6 Explain the various methods used to determine the end point in potentiometry with graph.

OR

7 With neat labelled diagram, explain the construction, working, advantages and disadvantages of dropping mercury electrode.

UNIT – IV

8 Describe the principle, instrumentation and applications of Atomic Absorption Spectrophotometer.

OR

9 Explain the spectral and chemical interferences that occur in Atomic Absorption Spectroscopy.

UNIT – V

10 Describe various grades of reagents used in QC lab and discuss the applications of L.R grade, A.R Grade and 1-LPLC grade reagents in Pharmaceutical industry.

OR

11 How moisture content will be determined in Pharmaceutical industries and discuss in detail Karl-Fisher method with neat labelled diagram WWW.FirstRanker.com