

Code: 15R00401

R15

B.Pharm II Year II Semester (R15) Regular & Supplementary Examinations May/June 2018

PHARMACEUTICAL ANALYSIS – I

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Define the term accuracy.
 - What are the different methods of expressing concentration?
 - Mention the indicators used in complexometric titrations.
 - What are precipitation titrations?
 - Write briefly on pH curve.
 - Discuss the principle of polarography.
 - What is Stokes line and anti Stokes line?
 - Write the differences between Nephelometry and Turbidimetry.
 - What is optical rotation?
 - Give two examples for refractometers and interferometers.

PART – B

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

UNIT – I

- 2 (a) Write a note on neutralization of indicators.
(b) Mention the solvents used in non-aqueous titrations.

OR

- 3 Write a note on acidimetry and alkalimetry. Explain the indicators used in it.

UNIT – II

- 4 Write a note on masking and demasking and their applications.

OR

- 5 Describe the theory and principles of oxidation-reduction methods with suitable examples.

UNIT – III

- 6 What are conductometric titrations? Explain about conductivity cell-ion.

OR

- 7 Write the methods for determination of the endpoint by potentiometric titrations.

UNIT – IV

- 8 Write the theory, instrumentation and pharmaceutical applications of fluorescence.

OR

- 9 Explain the principle, instrumentation and applications of flame emission photometry.

UNIT – V

- 10 Write a note on principle and applications of:

- Refractometry.
- Polarimetry.

OR

- 11 Explain the Karl-Fischer methods of estimation of water in pharmaceuticals.
