

Code: 9R01402

B.Pharm II Year II Semester (R09) Supplementary Examinations May/June 2018

PHARMACEUTICAL ANALYSIS – I

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Define and explain its importance in pharmaceutical analysis:
 - (a) Significant figure.
 - (b) Standard deviation.
 - (c) Precision.
 - (d) Accuracy.
- 2 Explain the general principles and theory of:
 - (a) Oxidation-reduction methods.
 - (b) Precipitation methods.
- 3 Explain the theory and solvents used in non-aqueous titration. Add a note on its applications in pharmacy.
- 4 Write in detail about different electrodes used in potentiometric titration. Add a note on its applications in pharmacy.
- 5
 - (a) Explain the working principle of dropping mercury electrode.
 - (b) Explain the factors affecting diffusion current in polarography.
- 6 Write the working principle, instrumentation and applications of flame photometry in pharmaceutical analysis.
- 7 Write short notes on:
 - (a) Column chromatography.
 - (b) Different development and detection techniques used in paper chromatography.
- 8
 - (a) Differentiate Nephelometry and turbidimetry.
 - (b) Explain different methods of determination of moisture content with special emphasis on Karl-Fisher titration.
