

Subject Code: PAQ 11

M. Pharmacy- I Semester [R09] Regular/Supplementary Examinations, April -2013

ADVANCED PHARMACEUTICAL ANALYSIS-

(Pharmaceutical analysis & quality assurance)

Time: 3 Hours

Max Marks: 60

**Answer any Five Questions
All Questions carry equal marks**

1. (a). Write the principle behind the IR spectroscopy and explain the instrumentation of IR
(b). Explain the applications of IR with examples.
2. (a). what is flame emission spectroscopy? Discuss its various components in instrumentation.
(b). Write the theory and applications of flame emission spectroscopy.
3. (a). Differentiate nephelometry and turbidometry. Draw a neat sketch and explain.
(b). Write the theory and applications of Polarography.
4. (a). What is thermal analysis. Classify and discuss the principles of theory.
(b). Write detail note on instrumentation and applications of any thermal analytical method.
5. (a) Explain the determination of water by Karl Fischer reagent.
(b). Write the assay of (i) Adrenaline (ii) Phenylephrine by non-aqueous titration.
6. Answer the following
(a). Detectors used in UV-Visible spectrophotometer
(b). Significance-ratio and regression analysis.
7. (a). What is meant by redox titrations?
(b). Discuss different redox indicators.
(c). Write the assay of ascorbic acid by Ceric ammonium sulphate.
(d). Write note on standard operating procedure (SOP)
8. (a). Explain about PM Indicators.
(b). Short note on Good Laboratory Practice.
(c). Assay of Calcium Gluconate injection.
(d). Assay of Sulphanilamide by diazotization titrations.