

**FACULTY OF PHARMACY****Pharm. D (6 YDC) III - Year (Instant) Examination, March 2018****Subject: Pharmaceutical Analysis****Time : 3 Hrs****Max. Marks: 70*****Note: Answer all questions from Part - A and answer any five questions from Part-B.*****PART – A (10 x 2 = 20 Marks)**

- 1 What are the advantages of HPTLC over HPLC?
- 2 Write a note on spraying reagents used in Paper Chromatography.
- 3 Write and explain Lkovic equation.
- 4 Write the srces of IR Spectroscopy.
- 5 Define the Quenching and Chromophone.
- 6 Write the principle involved in Ion Exchange Chromatography
- 7 Write a note on Karlfisher Titration.
- 8 Classify Chromatography based on its separation technique.
- 9 Write a note on Preparative TLC.
- 10 Write a note on solvent effects on UV spectroscopy.

**PART – B (5 x 10 = 50 Marks)**

- 11 Write a note on Total Quality Management.
- 12 Write the principle, Instrumentation and Applications of Flrimetry
- 13 Write a note on Gel Electrophoresis.
- 14 Write a short notes on
  - (a) Columns used in HPLC
  - (b) Detectors used in GLC
- 15 Write a note on Principle, Construction and Applications of Amperometric Titrations.
- 16 Write the principle and Instrumentation of Mass Spectroscopy.
- 17 Discuss the applications of the following in Pharmaceutical Analysis.
  - (a) Thermal Analysis
  - (b) X-Ray Diffraction
- 18 Discuss the Principle, Instrumentation and Applications of UV-Visible Spectroscopy.

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