

FACULTY OF PHARMACY**Pharm D (6-YDC) III – Year (Main & Backlog) Examination, July 2018****Subject: Pharmaceutical Analysis****Time: 3 Hrs****Max.Marks: 70****Note: Answer all questions from Part – A. Any Five questions from Part – B.****PART – A (10x2 = 20 Marks)**

- 1 Write and explain ilkovic's equation.
- 2 Define accuracy and precision.
- 3 Name different type of ionization techniques in mass spectroscopy.
- 4 Distinguish isocratic and gradient elution.
- 5 Define chemical shift and list the factors influencing it.
- 6 Write abt the reference standard used in ESR.
- 7 Explain the principle of separation involved in gel filtration.
- 8 List t ICH guidelines for quali ty (Q).
- 9 Define current voltage curve.
- 10 Write the principle involved in flame photometry.

PART – B (50 Marks)

- 11 Write short notes on:
 - a) TQM 5
 - b) GLP 5
- 12 Write abt different types of detector used in GLC with neat sketch. 10
- 13 Explain the working principle and instrumentation for gel electrophoresis. 10
- 14 Discuss different electrodes used in potentiometric titration. 10
- 15 Elaborate different X-ray diffraction methods. 10
- 16 Write the instrumentation and applications of UV-VIS spectroscopy. 10
- 17 Explain the principle and development techniques in paper chromatography. 10
- 18 a) Describe the construction and working of DME. 5
b) Write the principle and application of DTA. 5
