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FACULTY OF PHARMACY

Pharm-D (6-YDC) III-Year (Main & Backlog) Examination, June/July 2019

Subject : Pharmaceutical Analysis

Time : 3 Hrs

Max. Marks: 70

Note : Answer all the questions from Part-A. Answer any five questions from Part-B.

PART- A(10x2=20 Marks)

- 1 Write the principle involved in Electrophoresis?
- 2 Define validation and calibration.

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- 3 Name different type of detectors used in IR?
- 4 Distinguish between TLC and HPTLC.
- 5 Write and explain Bragg's equation?
- 6 Write abt the reference standard used in NMR.
- 7 Explain the principle of separation involved in ion exchange chromatography?
- 8 Write the composition of karlfischer reagent?
- 9 Explain different types of transitions in UV region?
- 10 Write the principle involved in Atomic Emission Spectroscopy?

PART - B (5x10=50 Marks)

 (a) ISO-9000 (b) Calibration of UV VIS Spectroscopy (or) HPLC 	(4) (6)
12 Discuss the principle and instrumentation of GLC?	(10)
13 Explain the principle and instrumentation of Polarography.	(10)
14 Discuss the principle and different Conductometric titration.	(10)
15 (a) Write abt different types of ionisation techniques used in Mass spectroscopy(b) Explain the principle and instrumentation of ESR.	(5) (5)
16 Write the instrumentation and applications of HPLC.	(10)
17 Explain the principle and development technique of Paper chromatography?	(10)
18 Describe the construction and working of DSC and DTA?	(5+5)
