

(2)

- Q.6 Write the principle and interferences of Flame Emission spectroscopy.
- Q.7 What is X ray Crystallography? Explain X ray powder technique, Types of crystals and applications of X- ray diffraction?
- Q.8 Write short notes (Any Two)
- (a) Paper electrophoresis
 - (b) Zone electrophoresis
 - (c) Moving boundary electrophoresis
 - (c) Iso electric focusing

[Total No. of Questions: 8]

[Total No. of Printed Pages : 2]

Enroll No.....

MPH-101T

M. Pharm. (P'Ceutics)–I Semester (Reg./Ex)

Examination, March-2021

Modern Pharmaceutical Analytical Techniques

Time: Three Hours

Maximum Marks:75

Note: Attempt any five questions. (Each question carries equal marks)

- Q.1 Explain the principle, application and instrumentation of double beam UV spectroscopy.
- Q.2 Describe the principle and any two types of ionization methods of mass spectroscopy.
- Q.3 Classify Ion exchange, Ion exchangers used in Ion exchange chromatography. Enumerate the mechanism and factors affecting Ion exchange process.
- Q.4 Write on principles of separation and detection methods in HPLC.
- Q.5 What is Immunological assays? Write about RIA (Radio immuno assay), ELISA, and Bioluminescence assays?