

Sl.No: M21757a

Course Code: MPH101T

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**M.PHARM. DEGREE EXAMINATION – July 2019  
First Semester**

**BRANCH: PHARMACEUTICS**

**MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES**

Time : Three hours

Maximum: 75 marks

**(Draw neat labeled diagrams wherever necessary  
your answer should be specific to the questions asked)**

**SECTION –A**

I. Answer any **THREE** questions: **(3 x 15 = 45)**

1. Principle of ion exchange chromatography .Working of ion exchange chromatography
2. Theory of UV absorption. Construction of single beam UV spectro photometer
3. Instrumentation of florescence. Factors affecting florescence intensity
4. Principle of mass spectroscopy. Instrumentation of mass spectroscopy

**SECTION –B**

II. Answer any **THREE** questions: **(3 x 10 = 30)**

5. Principle of flame emission spectrophotometer. Applications of flame emission spectrophotometer.
6. Production of x rays. Explain with diagram.
7. Gel electrophoresis
8. Sampling techniques in IR.

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