

Sl.No: M2048

Course Code: MPA202T

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

**M.PHARM. DEGREE EXAMINATION – JANUARY 2021  
Second Semester**

**BRANCH: PHARMACEUTICAL ANALYSIS**

**MODERN BIO- 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. Explain about the principles and procedure involved in the protein precipitation and solid phase extraction.
2. Explain about the methods of dissolution testing transport models and bio pharmaceuticals classification system.
3. What are the basic requirements used in cell culture lab? Explain about cell culture media and general procedure for cell culture.
4. Explain about microsomal approaches and human line microsomes in met ID.

**SECTION –B**

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

5. Microsomal assays.
6. Toxicokinetics- toxicokinetic evaluation in preclinical studies.
7. Sub culture.
8. Purpose of bio availability studies.

\*\*\*\*\*