

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[M.PHARM 0524]**

**MAY 2024  
(APRIL 2024 EXAM SESSION)**

**Sub. Code: 2956**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER - II (PCI New Regulations 2016)  
PHARMACEUTICAL ANALYSIS - MPA  
PAPER II – MODERN BIO ANALYTICAL TECHNIQUES**

***Q.P. Code: 262956***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Effect of tissue binding interactions and interactions linked to transporters.  
b) General principle and procedure involved in Protein Precipitation.
2. a) Write the alternative methods of dissolution testing transport models.  
b) Discuss about cytochrome P450 drug interactions.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Protein Binding interactions.
2. Highlight the EMEA guidelines for bioanalytical method validation.
3. Cross over study designs - Explain.
4. Experimental methods for determining solubility.
5. General procedure for cell cultures.
6. LC-MS in bioactivity screening and proteomics.
7. Relative and Absolute Availability.

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