

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

**[M.PHARM 0922]**

**SEPTEMBER 2022  
(APRIL 2022 EXAM SESSION)**

**Sub. Code: 2977**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER - II (PCI New regulations 2016)  
PHARMACY PRACTICE - MPP  
PAPER III – CLINICAL PHARMACOKINETICS AND THERAPEUTIC DRUG  
MONITORING**

*Q.P. Code : 262977*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What is bioavailability? Explain the estimation and determinants of bioavailability. How does the bioavailability variation affect the patient outcome?
2. What is altered pharmacokinetics? Explain drug dosing in different population.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Conversion form intravenous to oral dosing.
2. Inhibition and induction of drug metabolism.
3. What is model assumption and testing?
4. Indications for TDM.
5. Genetic polymorphism in drug metabolism.
6. Bayesian theory.
7. Drug dosing in the hepatic failure.

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