

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

**[M.PHARM 1223]**

**DECEMBER 2023  
(OCTOBER 2023 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 clinical pharmacokinetics? Explain compartmental and non compartmental models.
2. What is TDM? Explain indication and protocol for TDM. Give the TDM of any one drugs used in the cardiovascular diseases.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Determination of dose and dosing interval.
2. Pharmacokinetic drug interactions.
3. Analysis of population pharmacokinetic data.
4. Model validation.
5. Genetic polymorphism in drug transport and drug target.
6. Drug dosing in pediatrics.
7. Calculation of loading and maintenance dose.

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