

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

[PHARMD 0423]

APRIL 2023

Sub. Code: 3827

**PHARM. 'D' (POST BACCALAUREATE) DEGREE EXAMINATION  
FIFTH YEAR (2009-2010 Regulation)  
PAPER III – CLINICAL PHARMACOKINETICS &  
PHARMACOTHERAPEUTIC DRUG MONITORING**

*Q.P. Code: 383827*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. What is pharmacodynamic interaction? Explain the consequences of direct pharmacodynamic interaction with examples.
2. What is Population pharmacokinetics? Explain the Bayesian theory and add notes on adaptive method for drug dosing.
3. Write down how the adjustments of dosing of drugs in patients with hepatic insufficiency and with examples.
4. Explain the pharmacogenetic and non genetic influences on variations in drug therapy.

**II. Write notes on:**

**(6 x 5 = 30)**

1. General approach for dosage adjustment in renal diseases.
2. Determination of dose and dosing intervals.
3. Inhibition and induction of drug metabolism.
4. Patient related factors affecting drug absorption.
5. *Intravenous* to oral therapy.
6. Therapeutic drug monitoring and its indication.

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