

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

[PHARMD 0321]

MARCH 2021

Sub. Code: 3827

(OCTOBER 2020 EXAM SESSION)

PHARM. 'D' (POST BACCALAUREATE) DEGREE EXAMINATION

FIFTH YEAR (2009-2010 Regulation)

**PAPER III – CLINICAL PHARMACOKINETICS AND
PHARMACOTHERAPEUTIC DRUG MONITORING**

Q.P. Code : 383827

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Explain about Pharmacokinetic / Pharmacodynamic correlation in Drug therapy.
2. Describe about adaptive method in population pharmacokinetics.
3. Drug dosing in Pediatrics and Elderly patients.
4. Explain about the genetic polymorphism in drug metabolism of CYP-450 enzymes.

II. Write notes on:

(6 x 5 = 30)

1. Adverse reactions attributed to Genetic difference
2. Describe the measurement of Creatinine clearance.
3. Pharmacokinetic drug interactions
4. General approach for dosage adjustment in renal disease
5. TDM of seizure drugs
6. How is dosing interval determined on the basis of therapeutic index of the Drug?
