

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

**[PHARMD 0122]**

**JANUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 3827**

**PHARM 'D' AND 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**

**Answer ALL Questions**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Describe about Bayes estimator and applications.
2. Explain in detail about conversion from intravenous to oral dosing of drugs.
3. Elaborate on Pharmacokinetic drug interactions with suitable example.
4. Enumerate inhibition and induction of drug metabolism.

**II. Write notes on:**

**(6 x 5 = 30)**

1. TDM of drugs used in organ transplantations.
2. Measurement of GFR and creatinine clearance.
3. Explain Dosage adjustment in Uremic patients.
4. Enumerate effect of hepatic disease on pharmacokinetics.
5. An aminoglycoside has a normal elimination half-life of 107 minutes in young adults. In patients 70 to 90 years old, the elimination half-life of the aminoglycoside is 282 minutes. The normal dose of the aminoglycoside is 15 mg/kg per day divided into two doses. What is the dose for a 75-year-old patient, assuming that the volume of distribution per body weight is not changed by the patient's age?
6. Dosing in Obese patients.

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