

Q.P. Code: 203340

Reg. no.:

**Second Pharm D Post Baccalaureate Degree Supplementary
Examinations November 2022**

Paper III - Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring

Time: 3 Hours

Total Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays:

(3x10=30)

1. List out the indications for TDM. Explain the necessity and process of TDM in patients receiving digoxin and phenytoin.
2. (a) Discuss various markers used in the measurement of glomerular filtration rate along with their advantages and disadvantages.

(b) Enumerate the various formulae used for the measurement of creatinine clearance.
3. Discuss the role and clinical significance of genetic polymorphism in drug transports and drug targets with suitable examples.

Short notes:

(8x5=40)

4. How to determine the dose and dosing interval of a drug administered through an intravenous route of administration.
5. Explain the role of co-existing diseases and interacting drugs in the individualization of drug dosage regimen.
6. Explain the influence of drug interaction on drug metabolism with respect to enzyme induction and enzyme inhibition.
7. Explain the dosage adjustment in uremic patients.
8. What is the creatinine clearance for a 22-year-old male patient with a serum creatinine of 1mg/dL. The patient is 4 ft, 3inches in height and weighs 86 Kg.
9. Describe Bayesian theory.
10. What are the limitations of the population pharmacokinetic approach.
11. Write a note on the Inhibition of biliary excretion.
