

Q.P. Code: 503326

Reg. no.:

**Fifth Year Pharm D Degree Regular/Supplementary Examinations
July 2022**

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. Discuss the role and clinical significance of genetic polymorphism in drug transports and drug targets with suitable examples.
2. Explain in detail about the different methods of extracorporeal removal of drugs.
3. Explain the necessity and process of TDM in patients receiving lithium and methotrexate.

Short notes:

(8x5=40)

4. Explain in detail about the determination of dose and dosing interval of a drug.
5. Explain the methods of determining creatinine clearance.
6. Describe the role of cytochrome P-450 enzymes in drug interactions. Add a note with suitable examples and their clinical significance.
7. List various formulae for measurement of glomerular filtration rate.
8. Explain hemodialysis.
9. Describe the role of genetic polymorphism in drug targets.
10. Describe Bayesian theory
11. Describe how population pharmacokinetic data analysis is carried out.
