

Q.P. Code: 503326

Reg. No.:

**Fifth Year Pharm D Degree Regular/Supplementary Examinations
November 2020**

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 about the TDM of drugs used in organ transplantations and cardiovascular disease
2. Discuss in detail about dose adjustment in renal failure
3. Discuss in detail about the family CYP1 and its role in pharmacogenetics

Short notes:

(8x5=40)

4. Explain the processes of drug interactions
5. Explain the procedure to calculate creatinine clearance.
6. Explain about the maintenance dose with examples.
7. Define therapeutic drug monitoring and explain when TDM is necessary and when it is not necessary.
8. Define the term nomogram and describe the various nomograms used in clinical practice.
9. Discuss about "Population Pharmacokinetics" and write any five advantages of this analysis.
10. Explain the factors to be considered for individualizing the dosage regimen.
11. Discuss the drug transporter that shows genetic polymorphism and its consequence
