

Q.P. Code: 203340

Reg. no.:

Second Pharm D Post Baccalaureate Degree Regular/Supplementary Examinations July 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. Explain the indications for therapeutic drug monitoring and explain TDM of carbamazepine, digoxin and cyclosporine.
2. Explain the genetic polymorphism in drug transporters and drug targets
3. Explain various types of pharmacokinetic drug interactions with examples.

Short notes:

(8x5=40)

4. Explain adaptive dosing or dosing with feedback.
5. Explain dosage adjustment in renal failure.
6. Explain the mechanisms of enzyme inhibition.
7. Describe nomograms and their applications in designing dosage regimen.
8. Explain Bayesian theory with an example.
9. Explain the genetic polymorphism of Cytochrome P-450 Isoenzymes.
10. Explain dosage regimen design
11. Explain drug dosage adjustment in pediatric patients.
