

Q.P. Code: 203340

Reg. no.:

Second Pharm D Post Baccalaureate Degree Regular/Supplementary Examinations November 2020

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 process of extracorporeal removal of drugs.
2. Explain the genetic polymorphism in cytochrome P450 isozymes in drug metabolism.
3. Explain direct and indirect link models for pharmacokinetic and pharmacodynamic correlation.

Short notes:

(8x5=40)

4. Explain the process of IV to oral conversion
5. Explain absorption interactions with examples.
6. Explain nonlinear mixed effect model for population pharmacokinetic data analysis
7. Explain Child Pugh classification of hepatic disorders and mention its application in dosage adjustment.
8. Explain the patient selection criteria for IV to oral conversion
9. Explain TDM of Lithium and amiodarone.
10. Explain the factors affecting pharmacokinetics in obese patients and describe dosage adjustment in obese patients.
11. Explain the effects of enzyme induction and enzyme inhibition.
