Q.P.	Code: 503326	Reg. no.:

Fifth Year Pharm D Degree Regular/Supplementary Examinations June 2024

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 various models for pharmacokinetic and pharmacodynamic correlation.
- 2. Explain the procedure for dosage adjustment in renal and hepatic failure.
- 3. Explain the indications for Therapeutic Drug Monitoring (TDM) and explain TDM of digoxin and sodium valproate.

Short notes: (8x5=40)

- 4. Explain Bayesian theory with an example.
- 5. Explain the mechanisms of enzyme induction.
- 6. Explain the factors affecting dialyzability of a drug.
- 7. Explain genetic polymorphism of drug transporters and their effect on pharmacokinetics of drugs.
- 8. Explain drug-drug interactions in absorption and distribution processes.
- 9. Describe the patient selection criteria and advantages of IV to oral conversion.
- 10. Describe the salient features that differentiates conventional and population pharmacokinetics.
- 11. Mention all the formula used in dosage calculation for pediatrics.
