

**Q.P. Code: 203340**

**Reg. no.: .....**

**Second Pharm D Post Baccalaureate Degree Regular/Supplementary Examinations June 2024**

**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 drug dosing in the elderly and paediatric population with examples.
2. Explain about importance, indication of therapeutic drug monitoring and digoxin therapeutic monitoring procedure.
3. Describe the steps to be followed in drug dosage adjustments in renal impairment.

**Short notes:**

**(8x5=40)**

4. Explain the various factors influencing pharmacokinetic parameters in drug metabolism.
5. Describe about inhibition of biliary excretion.
6. Write a note on genetic polymorphism in drug metabolism.
7. Explain the adaptive method for dosing.
8. Write a note on markers of Glomerular Filtration Rate.
9. Describe the adverse drug reaction attributed to genetic differences.
10. Describe the Bayesian theory.
11. Explain the application of population pharmacokinetic data.

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