

**QP CODE: 213332**

**Reg. No:.....**

**Second Semester M. Pharm Degree Regular/Supplementary Examinations  
February 2021**

**M.Pharm (Pharmacy Practice)**

**Paper III: Clinical Pharmacokinetics and Therapeutic Drug monitoring  
(MPP 203T)**

**Time: 3 Hours**

**Total Marks: 75**

- *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 applications of compartment models and describe one compartment model for IV bolus administration
2. Explain pharmacokinetic interactions with appropriate examples
3. Describe drug dosing in paediatrics and elderly patients

**Short Notes**

**(9x5=45)**

4. Non-compartment model
5. Clearance of drugs
6. Intravenous to oral conversion
7. Cytochrome p450 Isoenzymes
8. Bayesian theory
9. Non-linear mixed effect model
10. Drug dosing in obese patients
11. TDM of digoxin
12. Inhibition of biliary excretion

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