

QP CODE: 213332

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations
September 2022**

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. Describe the methods for assessing bio-availability
2. Explain the concept of nomograms and tabulations in drug dosing decisions with examples
3. Discuss about the factors to be considered for dosage individualization and indications for TDM

Short Notes

(9x5=45)

4. Genetic polymorphism in drug metabolism
5. Adaptive method for dosage determination
6. Pharmacometrics software packages
7. Extra-corporeal removal of drugs
8. Drug dosing in hepatic failure
9. Protocol for TDM
10. PK/PD correlation in drug therapy
11. TDM of carbamazepine and sodium valproate
12. Calculation of loading and maintenance doses
