

Q.P. Code: 503326

Reg. no.:

Fifth Year Pharm D Degree Supplementary Examinations January 2026

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 Bayesian theory and adaptive dosing or dosing with feedback.
2. Explain the process of renal elimination and the impact of renal failure on pharmacokinetics of drugs and dosage adjustment in this condition.
3. Explain TDM of any four anti-epileptic drugs and any two cardiac drugs.

Short notes:

(8x5=40)

4. Explain genetic polymorphism of drug transporters and their effect on pharmacokinetics of drugs.
5. Describe the concepts of apriori and posterior probability of Bayesian theory with an example.
6. Describe the assessment of hepatic failure with appropriate scales and dosage adjustment in case of moderate to severe hepatic failure.
7. Define population pharmacokinetics and discuss its advantages.
8. Discuss the applications of nomogram in various clinical scenarios with relevant examples.
9. Describe various methods employed to implement IV to oral conversions with examples for each method.
10. Describe extra-corporeal elimination of drugs.
11. Explain the impact of obesity on pharmacokinetics and dosage adjustment in this condition.

CORRECTION / NO-CORRECTION FILE
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QPCODE: 503326

Dated: 23-01-2026

Question No. 5

Replaced with "Explain inhibition and induction of drug metabolism."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS