

Code No. 6202 / PB

**FACULTY OF PHARMACY****Pharm D (3 –YDC) II–Year (Instant) (Post Baccalaureate) Examination, February 2020****Subject: Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring****Time: 3 Hrs****Max.Marks: 70****Note: Answer all questions from Part – A. Any Five questions from Part – B.****PART – A (10x2 = 20 Marks)**

- 1 Write abt determination of dose and dosing interval.
- 2 Write the TDM for phenytoin sodium.
- 3 Explain abt innulin clearance.
- 4 Write a note on enzyme inhibition with examples.
- 5 Add a note on Biliary Excretion.
- 6 Give a brief acct on dosage adjustment in uremic patients
- 7 Brief abt pharmacogenetics and its applications.
- 8 Write a brief note on dosing with feedback.
- 9 What is the role of pharmacist in clinical pharmacokinetics?
- 10 Write the significance of population pharmacokinetics.

**PART – B (5x10 = 50 Marks)**

- 11 Describe the following:
  - a) Pharmacokinetic correlation in drug therapy. [5]
  - b) Bayesian theory [5]
- 12 Explain in detail abt the role of genetic polymorphism in drug metabolism and target with examples. [10]
- 13
  - a) Explain varis diseases where TDM is applicable. [4]
  - b) Dosage variability with respect to genetics, disease and age. [6]
- 14 Write a note on drug dosing in elderly and pediatric patients. [10]
- 15 Add a note on:
  - a) Induction of drug metabolism. [5]
  - b) Dosage adjustment in hepatic disease. [5]
- 16 Explain varis pharmacokinetic drug –drug interactions with suitable examples. [10]
- 17 Explain abt the following:
  - a) GFR and creatinine clearance. [5]
  - b) Adaptive method with feedback. [5]
- 18 Write in brief abt clinical pharmacokinetics. [10]

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