Code No. 13301

FACULTY OF PHARMACY

Pharm D (6 – YDC) V – Year (Main & Backlog) Examination, June 2019

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 the importance of nomograms in designing of dosage regimen.

2 What is TDM? Write the indications for TDM.

3 Add a note on PK-PD correlation in drug therapy.

4 Write a note on Cyp-450 enzymes.

5 Write the significance of half life in clinical pharmacokinetics.

6 Explain enzyme induction with examples.

7 What are the methods involved in the conversion of IV to oral dose?

8 Write the TDM of digoxin.

9 Give two examples of genetic polymorphism in drug transport.

10 Write the importance of bioavailability in pharmacokinetics.

PART – B (5x10 = 50 Marks)

11 Explain in detail abt the dosage adjustment in pati ents with hepatic disease.

12 Write a note on:
   a) Bayesian theory
   b) Analysis of population pharmacokinetic data.

13 Describe the role of genetic polymorphism in drug action.

14 Explain in detail abt individualization of drug dosage regimen.

15 Write in detail abt varis pharmacokine tic drug-drug interactions with suitable examples.

16 Describe in detail abt
   a) Dosage adjustment in obese patients.
   b) TDM of carbamazepine and phenytoin sodium.

17 Explain in detail the extra corporeal removal of drugs.

18 Describe the general approach for dosage adjustment in renal disease.

****