

**FACULTY OF PHARMACY**  
**Pharm. D (6 YDC) V-Year (Instant) Examination, March 2018**

**Subject : Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring**

**Time : 3 Hrs****Max. Marks: 70**

***Note: Answer all questions from Part – A, answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

- 1 What is TDM? Write the Indications for TDM.
- 2 Write a note on drug interactions at elimination site.
- 3 Write abt Cytochrome P<sub>450</sub> isoenzymes.
- 4 Write abt determination of Dose and Interval.
- 5 Explain enzyme induction with examples.
- 6 Explain plasma protein binding with its significance.
- 7 Explain Biological half life.
- 8 What are the factors involved in conversion of Intra Vens to oral dosing?
- 9 What is Pharmacogenetics?
- 10 Write the TDM protocol for vancomycin.

**PART – B (5 x 10 = 50 Marks)**

- 11 Explain the TDM for cardiovascular diseases.
- 12 Describe the pharmacodynamic drug interaction in detail.
- 13 Explain in detail abt the dosage adjustment in patients with hepatic disease.
- 14 Write abt Renal impairment. Write the importance of GFR and Creatinine clearance in dose adjustment.
- 15 (a) Describe the Bayesian-theory.  
(b) Pharmacokinetic correlation in drug therapy.
- 16 Explain in detail genetic polymorphism in (a) Drug metabolism (b) Drug absorption
- 17 How do you fix the dose for Obese, pediatric and geriatric patients?
- 18 Explain the extracorporeal removal of drugs.

\*\*\*\*\*