

**Q.P. Code: 503326**

**Reg. no.: .....**

**Fifth Year Pharm D Degree Supplementary Examinations  
February 2022**

**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. Define therapeutic drug monitoring. Discuss various steps and pharmacokinetic evaluation in TDM process
2. Explain altered pharmacokinetics in renal failure in detail.
3. Discuss about several methods used to design a dosage regimen.

**Short notes:**

**(8x5=40)**

4. Limitation of TDM
5. Explain the basic principles of clinical pharmacokinetics
6. Different types of intravenous to per-oral conversion of therapy.
7. Role of pharmacogenetics in drug metabolism.
8. Cytochrome P<sub>450</sub> isoenzymes.
9. Renal impairments
10. Population pharmacokinetics used NONMEM
11. Various methods for extra corporeal removal of drugs.

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