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Fifth Year Pharm D Degree Regular/Supplementary Examinations June 2023

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 the various factors considered in the design of dosage regimen for geriatric and obese patients.
- 2. Enumerate various causes for renal impairment. Discuss in detail about the pharmacokinetic considerations in the renal failure patients.
- 3. Explain in detail about the pharmacokinetic/pharmacodynamic correlation in drug therapy.

Short notes: (8x5=40)

- 4. Describe about Bayesian theory.
- 5. Explain the relationship between dose and duration of activity of a drug.
- 6. Explain the influence of drug interaction on drug metabolism with respect to enzyme induction and enzyme inhibition.
- 7. How do you adjust dosage regimen in renal failure patients based on elimination halflife of drug.
- 8. Describe the methods of measurement of GFR and their significance.
- 9. Describe the role of genetic polymorphism in drug targets.
- 10. Explain about TDM of phenytoin.
- 11. Explain the difference between traditional pharmacokinetics and population pharmacokinetics.
