Fifth Year Pharm D Degree Supplementary Examinations November 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)

(8x5=40)

- 1. Define nomograms. Explain their application in pharmacokinetic studies with examples. Add a note on their merits and demerits.
- 2. Explain in detail the general approaches for dosage adjustment in renal diseases.
- 3. Discuss the importance of genetic polymorphism of cytochrome P-450 isozymes on drug metabolism with suitable examples.

Short notes:

- 4. Explain dosage adjustment in paediatric patients.
- 5. Discuss the effect of hepatic diseases on pharmacokinetics of a drug.
- 6. Explain why TDM for digoxin is necessary.
- 7. How is Glomerular Filtration Rate (GFR) determined.
- 8. Explain the protocol for therapeutic drug monitoring of a drug.
- 9. Discuss NONMEM method.
- 10. Discuss the factors to be considered during the design of dosage regimen.
- 11. Define and explain pharmacokinetic drug interactions with examples.
