Roll No. | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 18

Pharm. D. (Sem.–5)

CLINICAL PHARMACOKINETICS & PHARMACOTHERAPEUTIC DRUG MONITORING

Subject Code : 5.3

M.Code : 72492

Time : 3 Hrs. Max. Marks : 70

INSTRUCTION TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. Define nomograms in designing dosage regimen.
2. Define bioavalibility.
3. Write about first pass metabolism.
4. Define therapeutic index and therapeutic window.
5. Write briefly about glomerular Alteration rate.
6. Write a brief note on steady state concentration of a Drug and its significance.
7. Write briefly about adaptive methods of dosing.

SECTION-B

8. Discuss about pharmacokinetic and pharmacodynamic correlation in drug therapy.
9. Discuss about dosage adjustment in uremic patients with an example.

10. Write a note on inhibition of biliary excretion.

11. Discuss about TDM of drugs used in cardiovascular diseases.

12. Write a note on Bayesian theory.

13. Discuss about effects of hepatic diseases on pharmacokinetics of drugs.

14. Discuss about adaptive method of dosing.

15. Write a note on objectives and methodology of analysis population pharmacokinetic data and its significance.

SECTION-C

16. Define drug interactions. Discuss in detail about the types of pharmacokinetic interactions with an example for each type.

17. Define TDM. Discuss in detail about the indication, methodology and protocol for TDM.

18. Discuss in detail with suitable examples about the role of genetic polymorphism in drug metabolism, drug transport and drug targets.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.