

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmacy Practice) (Sem.-2)

CLINICAL PHARMACOKINETICS AND THERAPEUTIC DRUG MONITORING

Subject Code : MPP-203T

M.Code : 79832

Date of Examination : 02-01-2023

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. a. Define creatinine clearance and describe various methods of determining creatinine clearance. (10)
b. Describe the significance of loading dose and derive the pharmacokinetic relationship between loading and maintenance dose. (5)
2. a. Describe the genetic polymorphism in drug target genes with suitable examples. (10)
b. Describe the fixed and adaptive model for designing dosage regimen. (5)
3. a. Describe the pharmacokinetic and pharmacodynamic basis of therapeutic drug monitoring of phenytoin. (10)
b. Describe the significance and method of dose adjustment in obese subjects. (5)
4. a. Describe the pharmacokinetic models for dose adjustment during extracorporeal removal of drugs. (7.5)
b. Describe the causes of variability for determining individualization of drug dosage regimen. (7.5)
5. a. Describe pharmacogenetic variation attributed to CYP2D6 inhibition and induction. (7.5)
b. Describe the basis of dose calculation for converting from intravenous to oral regimen of drug therapy. (7.5)
6. a. Describe the Bayesian adaptive method of dosing. (7.5)
b. Describe various models of hepatic clearance. (7.5)

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.