

VINAYAKA MISSION'S RESEARCH FOUNDATIONS
(Deemed to be University) , SALEM

Pharm.D/ Pharm.D (POST BACCALAUREATE) DEGREE
EXAMINATION - September 2021
Fifth Year

CLINICAL PHARMACOKINETICS AND
PHARMACOTHERAPEUTICS DRUG MONITORING

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. Discuss the importance of drug dosing in elderly and Pediatric patients with suitable examples.
2. Explain the factors to be considered during individualization of drug dosage regimen.
3. Explain genetic polymorphism in drug metabolism with suitable examples.

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. Write note on extracorporeal removal of drugs.
5. What are the protocols for TDM?
6. Write note on inhibition of biliary excretion.
7. How is TDM of digoxin carried out?
8. Write note on dosage adjustment for Uremic Patients.
9. Write note on Conversion from intravenous to oral dosing with suitable examples.
10. Write note on induction of drug metabolism.
11. What are the general approaches for dosage – adjustment in renal disease?

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. Define the term genetic polymorphism.
13. Differentiate the term Pharmacokinetics and Pharmacodynamics.
14. What is Glomerular Filtration Rate?
15. How do you know that a patient has renal – impairment?
16. What are the indications for TDM?
17. Give two examples for pharmacokinetic drug – interactions.