

Sl.No. M2371

Course Code: 3100405/3200405

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

**Pharm.D/ Pharm.D (POST BACCALAUREATE) DEGREE
EXAMINATION – July 2021
Fourth Year**

BIOPHARMACEUTICS AND PHARAMCOKINETICS

Time: Three hours

Maximum: 70 marks

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

1. Elaborate on the pharmacokinetic model and equations in one compartment open model I.V. bolus.
2. Explain the formulation and patient related factors affecting distribution.
3. Elaborate on any one delivery system for estimation of bioequivalence.

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

4. Causes of non-linearity with example
5. Limitations of multi compartmental analysis.
6. How will you find out K_m and V_{max} from steady state concentration?
7. Write the concept and types of clearance.
8. Measurement of bioavailability.
9. Non-compartment analysis.
10. Statistical moment theory.
11. Conjugation reaction.

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

12. Solid dosage forms.
13. Intradermal absorption.
14. Bolus dose
15. Pharmacokinetics
16. Elimination half life
17. Mixed order kinetics.
