

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

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

BIOPHARMACEUTICS AND PHARMACOKINETICS

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x15 = 30)

1. Elaborate on the drug elimination.
2. Explain the formulation and patient related factors affecting absorption.
3. Elaborate on bioequivalence study protocol.

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

4. Blood brain barrier.
5. Significance of protein binding.
6. Partition theory and its modifications.
7. Wagner Nelson method.
8. Carternary model.
9. Apparent volume of distribution.
10. Plasma protein binding.
11. Statistical moment theory.

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

12. Therapeutic index.
13. Loading dose.
14. Non liner pharmacokinetics.
15. Delayed drug delivery.
16. Two compartment model.
17. Zero order reactions.
