

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

**B.PHARM. DEGREE EXAMINATION – July 2021
Sixth Semester**

BIOPHARMACEUTICS AND PHARMACOKINETICS

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Explain biotransformation and types of drug metabolism with examples.
2. Explain in detail bioavailability and factors influencing.
3. Explain protein binding of the drugs.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Non compartment model.
5. Factors affecting drug elimination.
6. Calculation of loading and maintenance dosing.
7. Factors affecting drug absorption.
8. Different types of Dosage forms.
9. Bioequivalence.
10. Blood brain barrier.
11. Invitro drug dissolution models.
12. Drug transporters.

III. Write short notes on : (10 x 2 = 20)

13. Apparent volume of distribution.
14. Zero order elimination.
15. Hydrophilic drugs.
16. Michaelis – Menten constant.
17. Drug reservoirs.
18. Glomerular filtration rate.
19. Therapeutic index.
20. Tissue permeability of drugs.
21. Disintegration.
22. Skin absorption.
