Sl.No:M21218 Course Code: BP604T

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

B.PHARM. DEGREE EXAMINATION – October 2021 Sixth Semester

BIOPHARMACEUTICS AND PHARMACOKINETICS

Time: Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions:

 $(2 \times 10 = 20)$

- 1. Explain mechanism of drug transportation.
- 2. Explain in clinical significance of protein binding of drugs.
- 3. Explain renal elimination of the drugs.

II. Write short answers on any **SEVEN** questions:

 $(7 \times 5 = 35)$

- 4. Compartment model.
- 5. Factors affecting drug absorption.
- 6. Calculation of maintenance dosing.
- 7. Factors affecting drug metabolism.
- 8. First pass effect.
- 9. Bioavailability.
- 10. Blood placental barrier.
- 11. In vivo drug dissolution models.
- 12. Drug receptor binding mechanisms.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. Lock and key mechanism of enzymes.
- 14. First order drug elimination.
- 15. Lipophilic drugs.
- 16. Salivary excretion of the drugs.
- 17. Enterohepatic recycling of the drugs.
- 18. Active tubular secretions.
- 19. Therapeutic window.
- 20. Osmolarity.
- 21. pH of the drugs.
- 22. Physiological models.
