

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

B.PHARM. DEGREE EXAMINATION – February 2020
Fourth Year

INDUSTRIAL PHARMACY AND BIOPHARMACEUTICS

Time : Three hours

Maximum: 70 marks

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

1. Discuss about benefits, limits, types and evaluation of prolonged action pharmaceuticals.
2. Explain in detail about osmotic drug delivery system.
3. What are preformulation studies? Explain about physicochemical properties of the drugs that are determined in preformulation studies and their importance.

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

4. Classify different types of tablets.
5. Discuss the factors affecting bioavailability of a drug.
6. Describe about accelerated stability study.
7. Summarize the compartment models and its significance.
8. Explain about spray- drying and spray congealing method.
9. Discuss about the quality control test for capsules.
10. Describe about bio equivalence testing.
11. Summarize different types of pharmaceutical containers and closures including their merits and demerits.

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

12. What is meant by orange peel effect in tablet coating?
13. Binders and disintegrants.
14. Define biopharmaceutics.
15. What are the permeation enhancers?
16. Define polymorphism.
17. Anti- oxidants.