

Sl.No: M21600

Course Code: 2910413

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

B.PHARM. DEGREE EXAMINATION – July 2019
Fourth Year

INDUSTRIAL PHARMACY AND BIOPHARMACEUTICS

Time : Three hours

Maximum: 70 marks

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

1. Explain in detail about the method of preparation of liposomes and its applications.
2. Discuss about the absorption of drugs and factors affecting drug absorption.
3. Summarize the types, formulation, defects and manufacturing of tablets in large scale production.

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

4. Describe the methods used in coating of tablets.
5. Summarize the methods to enhance solubility of poorly soluble drugs.
6. Stability testing protocol for various pharmaceutical products.
7. Describe about evaluation of pharmaceutical packaging materials.
8. Discuss about aseptic techniques for parenteral products.
9. Enumerate about evaluation of transdermal drug delivery system.
10. Explain the preparation of microcapsules by co-acervation phase separation technique.
11. Describe about benefits and limitations of prolonged action pharmaceuticals.

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

12. What are the steps involved in sugar coating?
13. Define pharmacokinetics.
14. State about pyrogenicity.
15. Define apparent volume of distribution.
16. Chipping and lamination.
17. Write about storage of capsule dosage forms.
