Sl.No: M19148 Course Code: 2910212

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

B.PHARM. DEGREE EXAMINATION – August 2018 Second Year

PHYSICAL PHARMACEUTICS

Time: Three hours

Maximum: 70 marks

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

 $(2 \times 15 = 30)$

- 1. a) Discuss the properties of Association of colloids.
- b) Explain the stabilization of Lyophobic colloids.
- 2. a) Write a short note on Electrical properties of interfaces.
 - b) Explain what are the surface active agents? Explain their applications in pharmacy.
- 3. Explain the Non-Newtonian types of flows in pharmacy with suitable examples.
- II. Write short essays on any SIX questions:

 $(6 \times 5 = 30)$

- 4. Explain in brief the solubilization to enhance the solubility of drug.
- 5. Identification test for emulsion.
- 6. How do you determine the surface tension by Dunony Ring method?
- 7. Coulter Counter method.
- 8. Write a short note on single point viscometer.
- 9. Detail note on drug complexes.
- 10. Adiabatic and reversible process in thermodynamics.
- 11. How do you determine the order of reaction by substraction and half-life method?
- III. Write short notes on any **FIVE** questions:

 $(5 \times 2 = 10)$

- 12. Wetting agent.
- 13. Zero order reaction.
- 14. Rheopexy.
- 15. Complexation.
- 16. Refractive index.
- 17. Thermodynamics.
