Sl.No: M21421 Course Code: BP304T

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

B.PHARM. DEGREE EXAMINATION – JULY 2019 Third Semester

PHARMACEUTICAL ENGINEERING

Time: Three hours Maximum: 75 marks

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

 $(2 \times 10 = 20)$

- 1. Explain heat transfer by conduction and discuss about Fourier Law of heat transfer.
- 2. Define distillation and explain the construction, working and advantages and steam distillation.
- 3. Describe the construction, working and principle behind filter press.
- II. Write short answers on any **SEVEN** questions:

 $(7 \times 5 = 35)$

- 4. Describe about Pitot tube.
- 5. Explain the factors influencing size reduction.
- 6. Describe about cyclone separator.
- 7. What are the factors involved in the process of evaporation?
- 8. Explain the methodology of simple distillation.
- 9. Explain the mechanism of solid mixing.
- 10. Describe about filter leaf.
- 11. Write a note on theories of corrosion.
- 12. Explain about the ferrous metals used in plant construction.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. What is variable head meter?
- 14. What is the unit of Reynolds number?
- 15. Define compression.
- 16. What is radiation?
- 17. What is boiling?
- 18. Define molecular distillation.
- 19. Enumerate the applications of drying.
- 20. What is propeller?
- 21. Define clarification.
- 22. What are the types of plastics?