Sl.No:M21204 Course Code: BP304T

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

B.PHARM. DEGREE EXAMINATION – October 2021 Third Semester

PHARMACEUTICAL ENGINEERING

Time: Three hours

Maximum: 75 marks

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

 $(2 \times 10 = 20)$

- 1. Explain in detail any two hydrodynamic devices used in the measurement of fluid flow.
- 2. Define in detail any two heat interchanges with a neat diagram.
- 3. Explain in detail about the ferrous and non-ferrous materials used in plant construction.

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

 $(7 \times 5 = 35)$

- 4. Write a note on the simple manometer.
- 5. Note on edge runner mill.
- 6. Fourie's law and its application.
- 7. Steam distillation.
- 8. Note on drum dryer.
- 9. Mechanisms of filtration.
- 10. Note on cartridge filter.
- 11. Principal, construction, working of super centrifuge.
- 12. Types of corrosion.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. Define critical velocity.
- 14. Define conduction.
- 15. Factor influencing evaporation.
- 16. Differentiate heat interchange and heat exchange.
- 17. Merits of freeze dryer.
- 18. Methods to avoid vortex formation in mixing.
- 19. Define slurry, filter media and filtration.
- 20. Note on seidtz filter.
- 21. Demerit of perforated basket centrifuge.
- 22. Define corrosion and its types.
