

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

B.PHARM. DEGREE EXAMINATION – July 2019
Second Year

PHARMACEUTICAL TECHNOLOGY

Time : Three hours

Maximum: 70 marks

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

1. a) Explain in detail about principle ,construction ,working of differential manometers with neat diagram.
b) Explain in details about Reynolds's number and experiment with neat diagram.
2. a) write a detailed note on multiple effect evaporator with its yield efficiency.
b) Explain in detail about factors affecting evaporation.
3. a) Write a detailed note on IP grade powders and cyclone separator.
b) Explain in detail about principle, construction, working of bag filter with neat diagram.

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

4. Define corrosion and methods to prevent it.
5. Explain in detail about types on industrial hazards.
6. Write in detail about pitot tube with neat diagram.
7. Write the principle and construction of meta filter with neat diagram.
8. Write in detail about caking of crystals and methods to prevent.
9. Write a note about heat transfer and fourier's law with derivation.
10. Write a note on molecular distillation with neat diagram
11. Principle, construction and working of hammer mill with diagram

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

- 12.Types of materials used in plant construction.
13. Write the limitation of super saturation theory
14. Differentiate conduction and convection
15. Write down the principle involved in hammer mill, ball mill and fluid energy mill.
16. Write down the advantage of flash distillation.
17. Explain the Raoults law.
