

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

**DIPLOMA IN PHARMACY EXAMINATION – April 2019**  
**First Year**

**PHARMACEUTICS – I**

Time: Three hours

Maximum: 80 marks

Answer **Any EIGHT** questions only  
All questions carry equal marks  
Draw Neat, Labelled Diagram wherever necessary.

1. Classify liquid dosage forms. Explain with suitable examples. (5+5)
2. Describe the construction and working of
  - a) Bull Mill
  - b) Double cone mixer(5+5)
3. Define extraction. Explain the types of percolation processes. (10)
4. Give an account of Dry heat sterilization and Gaseous sterilization. (5+5)
5. Differentiate between distillation and evaporation. Explain about steam distillation. (4+6)
6. Define capsule. Explain about Hard Gelatin capsules. (2+8)
7. Differentiate between active and passive Immunity. Explain the preparation of BCG vaccine. (4+6)
8. Write notes on : a) Sugar coating b) Plastic containers. (5+5)
9. a) Give an account of Freeze dryer.  
b) How will you prepare 220 ml of Iodine tincture containing 2.5% of Iodine from Iodine tinctures containing 10%, 5% and 2% Iodine. (5+5)
10. a) Discuss about the factors affecting filtration. (5)  
b) Write a note on sedimentation methods of size separation. (5)

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