

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

**DIPLOMA IN PHARMACY EXAMINATION – October - 2021
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. (i) Convert 80 % alcohol to proof spirit.
(ii) Convert 18⁰ under proof spirit to percentage of alcohol.
(iii) Convert 40⁰ over proof spirit to percentage of alcohol.
(iv) Prepare 60 ml of 5 % solution of sodium bicarbonate.
2. Write in detail about glass container.
3. (i) Explain the principles and methods of size reduction. (5)
(ii) Write about the principle, construction and working of hammer mill. (5)
4. Define mixing. Classify the equipments used in mixing. Explain the construction and working of Silverson mixer. (2+3+5)
5. Define filter media. Write about various filter media used in filtration. (2+8)
6. Explain with neat diagram soxhlet apparatus or continuous hot percolation process.
7. Define evaporation. What are the factors affecting evaporation. (2+8)
8. Define sterilization. Write in detail about sterilization by radiations. (2+8)
9. Write in detail about freeze dryer.
10. Purpose of coating. Write about different types of coating. (2+8)
