

**Second B.Pharm (Ayurveda) Degree Supplementary Examinations,
April 2017**

Pharmaceutical Engineering

Time: 3 Hours

Total Marks: 100

- Answer all questions.

Essays:

(2x10=20)

1. Define drying. Classify various dryers and explain the construction, working and applications of vacuum dryer.
2. Define filtration. Explain factors affecting filtration and discuss the construction and working of filter leaf.

Answer briefly:

(10x5=50)

3. Mechanism of crystallization
4. Working of short tube evaporator
5. Techniques for dehumidification
6. Explain the principle of orifice meter and mention its advantages over venturimeter
7. Working of centrifugal pump
8. Chemical hazards and safety precautions
9. Working of screw conveyor
10. Steam distillation
11. Principle and applications of freeze drying
12. Construction and working of hammer mill

Short notes:

(10x3=30)

13. Types of stainless steel
14. Double cone blender
15. Storage bins
16. Define and classify pumps
17. Uses of heat in pharmaceutical industry
18. Accident records
19. Working of flash distillation
20. Film coefficient
21. Filter media
22. Triple roller mill