

Second Year B.Pharm Degree Examinations - October 2013

**PHARMACEUTICS III
(PHARMACEUTICAL TECHNOLOGY)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

(3x10=30)

1. Explain fluid energy mill in detail.
2. Discuss about steam distillation in detail.
3. Classify evaporators. Explain in detail multiple effect evaporators

Short notes

(14x5=70)

4. Explain the theories of filtration
5. State the principles of centrifugation and classify centrifuges with examples
6. Heat transfer co-efficient.
7. What are chemical hazards.
8. State the mechanism of dehumidification and list the approaches used
9. Classify dryers and explain tray dryer
10. Explain the edge filter.
11. Diaphragm pumps for material handling.
12. What are corrosions and how can it is prevented.
13. Filter aids
14. Explain the theory of solid mixing
15. State and explain Fourier's law of heat conduction.
16. Devices used for liquid mixing
17. What are the principles of freeze drying.
