

Second Year B.Pharm Degree Supplementary Examinations - April 2014

**PHARMACEUTICS III
(PHARMACEUTICAL TECHNOLOGY)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

(3x10=30)

1. Classify reciprocating pumps. Explain the construction and working of simplex, double acting piston pump
2. Explain the principle, construction, working merits and demerits of filter press.
3. Explain in detail about factors affecting the size reduction of drugs. .

Short notes

(14x5=70)

4. State and explain Fourier's law of heat conduction.
5. Principle involved in centrifugation
6. Laws governing size reduction
7. Film evaporator.
8. State and explain Raoult's Law.
9. Principle involved in freeze drying and mention its applications.
10. Measurement and factors of equilibrium moisture content.
11. Explain the mechanism of dehumidification and mention its applications.
12. How does vortex forms. What are its drawbacks and how it can be prevented.
13. Measurement of humidity.
14. Ribbon blender.
15. Explain the role of stainless steel as a material of construction in pharmaceutical industries.
16. Various chemical hazards in pharmaceutical industries.
17. Filter aids.
