

Second Year B.Pharm Degree Examinations - July 2015

(2012 Scheme)

PHARMACEUTICAL TECHNOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Classify piston pumps. Explain the construction and working of a simplex, double-acting, steam-driven, deck-valve, piston pump.
2. Explain the construction and working of a tubular heat exchanger
3. Explain various phases of a rate of drying curve.

Short notes

(14x5=70)

4. Role of fans on transportation of gases
5. State and explain Fourier's law of heat conduction
6. Darcy's law of filtration
7. Construction and uses of a hammer mill
8. Construction and uses of a short tube evaporator
9. Raoult's law of distillation
10. Methods of measurement of humidity
11. Types of impellers for liquid mixing
12. Role of Stainless steel as a material for pharmaceutical plant construction
13. Chemical hazards in a pharma industry
14. Laws governing energy and power requirement of a mill.
15. Sources and uses of heat in a pharmaceutical industry
16. Pharmaceutical applications of centrifugation
17. Principle involved in freeze drying
