

**Pharmaceutical Technology**

**(2012 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. Explain the principle, design and operation of multiple effect evaporators.
2. Discuss about rectification in detail.
3. Explain the causes of chemical and electrical hazards and its prevention.

**Short notes**

**(14x5=70)**

4. Tubular heat exchanger
5. Filter leaf.
6. Azeotropic and extractive distillation.
7. Types of fans used in handling of gases.
8. Glass.
9. Principles of humidification.
10. Factor affecting evaporation.
11. Fluid energy mill.
12. Drum dryer.
13. Compressor.
14. Theory of filtration.
15. Continuous horizontal centrifuge.
16. Accident records.
17. Sieve analysis – as a method of size separation.

\*\*\*\*\*