

[LC 4259]

FEBRUARY 2013

Sub. Code: 4259

**SECOND YEAR B.PHARM. EXAM**  
**PAPER IV – PHARMACEUTICAL TECHNOLOGY**

*Q.P. Code : 564259*

**Time : Three hours**  
**(180 Min)**

**Maximum: 100 Marks**

**I. Elaborate on:** **(2x20=40)**

1. Define Crystallization. Discuss about the Mier's Super Saturation Theory. Enumerate the Principle, construction, working and advantages of Swenson Walker Crystallizer.
2. Explain the theory behind Correction. How will you prevent and control Corrosion?

**II. Write notes on:** **(8x5=40)**

1. Central Air Conditioning System.
2. Multiple Effect Evaporator.
3. Steam distillation of Industrial scale.
4. Glass as the material of Pharmaceutical plant Construction.
5. Chemical hazards.
6. Equilibrium Moisture content.
7. Conical disc centrifuge.
8. Rotary Drum Filter.

**III. Short Answers:** **(10x2=20)**

1. Area meters.
2. Cake Filtration.
3. Vortex Formation.
4. Circulating load.
5. Definition of Valves and Pumps.
6. Different sources of heat.
7. Eutectic Point.
8. Comminution.
9. Binary mixture.
10. Bound Water.

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