

(LF 4259)

AUGUST 2014

Sub. Code: 4259

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

*Q.P. Code: 564259*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Essay: (2X20=40)**

1. a) Write a role on stainless steel in material of plant construction in the pharmaceutical industry.  
b) Draw and explain the Psychrometric chart.
2. Define viscosity and explain about Venturimeter and Orifice meter.

**II. Short Notes: (8X5=40)**

1. Explain Raoult's law of distillation.
2. Write a note on chemical hazards.
3. Give an account on gear pump.
4. Explain cartridge filter.
5. Write briefly on mechanism of heat transfer.
6. What are the uses, advantages and disadvantages of fluidized bed dryer?
7. Write a note on double cone blender.
8. Write the construction and working of ball mill.

**III. Short Answers: (10X2=20)**

1. How will you prepare super saturation solution for crystallization from a given solution?
2. Define valves.
3. What are all the disadvantages with thermostatic steam trap?
4. Define evaporation.
5. Define centrifugation.
6. Uses of phase diagram
7. Define humidity.
8. Define Bernouli's theorem.
9. Define distillation.
10. Advantage of hammer mill.

\*\*\*\*\*