

VT Oe: 08-329

Con. 5985-08.

Pharmaceutical Engineering-I

Sem-I

RS-4748

(2 Hours)

[Total Marks : 40

2008-09

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions from Q. Nos. 2 to 6.
(3) Draw neat well labelled **diagram** wherever **necessary**.

1. (a) Describe the types of flow patterns exhibited by the liquid in motion. 5
(b) What is meant by air binding in pumps. ? How do you overcome the problem ? 3
2. (a) What are the various methods of purification of water ? Describe reverse osmosis in detail. 4
(b) Classify conveyors used to transport solids and write in brief on belt conveyors. 4
3. (a) List various types of humidification equipments. With a neat diagram explain principle and working of an air conditioner. 5
(b) Explain the principle of dehumidification. 3
4. (a) Classify centrifuges. 2
(b) Write a note on any one hydroextractor. 4
(c) Gear pumps can handle liquids with high viscosity – Comment. 2
5. (a) Write the mechanism of corrosion list the various types of corrosion. 6
(b) What is wet corrosion ? 2
6. (a) Write in brief on heat transfer between fluid solid boundary. 5
(b) Write short notes on copper and its alloy. 3
