

B.Pharm First Semester (Old)
35142 : Pharmaceutical Engineering - I : T-1.5

P. Pages : 1

Time : Three Hours



AV - 2320

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Illustrate your answer necessary with the help of neat sketches.

1. a) Classify various pumps. Write in detail about positive displacement pump. 6
b) Explain principle, construction and working of venturi meter. 6
2. Classify various filters explain theory of filtration and factors affecting filtration. 12
3. a) Enlist different types of evaporators and explain climbing film evaporator. 6
b) Give details of perforated basket centrifuge. 6
4. Write note on **any two**. 12
a) Solid-liquid extractor b) Rotary Pump
c) Bernoulli's theorem
5. a) Define corrosion. Give its types in detail. 6
b) Explain various modes of heat transfer. 6
6. a) Explain unidirectional valves and automatic regulating valves. 6
b) Explain counter-current multistage extractor. 6
7. Write note on **any two**. 12
a) Rectification.
b) Centrifugal pump.
c) Pitot tube.
