

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

P. Pages : 1

Time : Three Hours



AU - 0657

Max. Marks : 60

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

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| 1. | a) | Define corrosion. Explain its types in detail. | 6 |
| | b) | Explain modes of heat transfer. | 6 |
| 2. | a) | Define distillation. Explain Fractional distillation in detail. | 6 |
| | b) | Explain boiling point diagrams in detail. | 6 |
| 3. | a) | Discuss liquid- liquid extraction process in detail. | 6 |
| | b) | Classify different centrifuge. Explain in detail Horizontal continuous centrifuge. | 6 |
| 4. | | Write note on any two . | 12 |
| | a) | Reciprocating pump. | |
| | b) | Orifice meter. | |
| | c) | Fractionating column. | |
| 5. | a) | Classify various valves. Write in detail about globe valve and gate valve. | 6 |
| | b) | Classify Evaporators. Describe falling film Evaporator. | 6 |
| 6. | | Write note on any two . | 12 |
| | a) | Sterile Filters. | |
| | b) | Current meter and disc meter. | |
| | c) | Compressors. | |
| 7. | a) | Explain principle, construction, and working of multiple effect evaporator. | 6 |
| | b) | Discuss in detail about Bernoulli's theorem. | 6 |
