

Code No: B132201

R13**SET - 1****II B. Pharmacy II Semester Supplementary Examinations, Nov - 2018****PHARMACEUTICAL UNIT OPERATIONS-II**

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART -A

1. a) Write about liquid interchanger and its applications. (4M)
- b) Describe theory of evaporation. (4M)
- c) Describe the Raoult's law and volatility. (4M)
- d) Explain equilibrium relationship and free moisture content. (4M)
- e) Write factors affecting on size reduction. (3M)
- f) Explain statistical evaluation of mixing. (3M)

PART -B

2. a) Explain in detail about heat transfer by radiation with examples. (10M)
- b) Explain the importance of Fourier's law. (6M)
3. Describe principle, construction and working of horizontal tube & multiple effect evaporators. (16M)
4. a) Explain about constant boiling mixtures with suitable examples. (8M)
- b) Describe principle, procedure and applications of steam distillation. (8M)
5. a) Explain principle, working and applications of freeze dryer and fluid bed dryer with a diagram. (12M)
- b) Explain principle, applications of spray dryer. (4M)
6. Write principle, Construction, working and applications of Ball mill. (16M)
7. Describe principle, Construction, working and applications of sigma blade mixer and planetary mixer. (16M)