Code No: B2201/R10

## Set No.1

## II B.Pharmacy II Semester Supple. Examinations, April/May 2017 PHARMACEUTICAL UNIT OPERATIONS-II

Time: 3 hours Max Marks: 75

## Answer any FIVE Questions All Questions carry equal marks

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- 1. (a) Give the characteristic of drop wise and film types of condensation
  - (b) Derive an equation for qualifying the heat flowing through a metallic cylinder by means of conduction. [8+7]
- 2. Describe and construct vaccum stills for distillation under reduced pressure [15]
- 3. (a) Classify vapor heated evaporators with tubular heating surface
  - (b) Describe the working of horizontal tube evaporators

[8+7]

- 4. Explain construction, operation in detail of various industrial Tray dryers along with applications [15]
- 5. (a) Describer in detail about need and necessity in the usage of Vacuum Oven , along with its construction and applications
  - (b) Explain the factors to be considered in the selection of Dryers .Add a note on Tray Dryer [8+7]
- 6. (a) Explain elaborately about various factors related to influencing size reduction of materials
  - (b) Describe the principle and working of Hammer mill with its applications [8+7]
- 7. (a) Compare and contrast the Propeller mixer with the turbine mixer.
  - (b) Explain in detail about various types of baffles employed in mixing with neat labeled diagrams. [8+7]
- 8. Give an account on the following:
  - (a) Feedback control systems
  - (b) Feed forward control systems
  - (c) Electronic Vs Pneumatic controllers
  - (d) Open loop and closed loop control systems

[4+4+4+3]

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