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B.Pharma (2017 & Onwards) (Sem.-3)
PHARMACEUTICAL ENGINEERING

Subject Code : BP-304T M.Code : 75108

Time: 3 Hrs. Max. Marks: 75

### INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.
- SECTION-C contains NINE questions carrying FIVE marks each and students have to attempt any SEVEN questions.

## SECTION-A

## Define:

- Reynold's Number
- Pitot tube
- Manometers
- Edge filter
- Adiabatic saturation temperature
- Rate of filtration

# Distinguish between:

- Conduction and Radiation
- Filtration and centrifugation.
- Evaporation and Drying
- Give principle behind Azeotropic distillation

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### SECTION-B

- 11. a. Highlight filter press
  - Explain the working of rotary filter.
- 12. Explain Bernoulli's theorem and highlight how it is used to find rate of flow of a fluids a horizontal pipe?
- Comment on the following :
  - Size reduction in a ball mill is by impact only.
  - Vortex formation is necessary in mixing liquids in cylindrical tanks.
  - c. Freeze drying materials have very good solubility.
  - d. Steam distillation occurs at 100°C

#### SECTION-C

- Explain factors effecting size reduction.
- 15. How pressure difference across incline tube manometer could be estimated?
- Give principle and working of cyclone separator.
- 17. Enumerate theories, types, prevention of corrosion.
- 18. Classify and Explain basket centrifuge.
- Explain mechanism of drying process and application of EMC.
- Give principle and working of yacuum distillation.
- Explain merits and demerits of steam jacketed kettle.
- Highlight heat interchangers.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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