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B.Pharma (2012 to 2016) (Sem.-4)
PHARMACEUTICS IV
(Unit Operation-II)

Subject Code : BPHM-401 M.Code : 46231

Time: 3 Hrs. Max. Marks: 80

#### INSTRUCTIONS TO CANDIDATES:

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

## SECTION-A

## Define :

- a. Define Unit Process.
- Define the term attrition.
- c. Define Overall Heat Transfer Coefficient.
- d. Explain Stefan Boltzmann's Law
- e. Describe Raoult's law.
- f. Mention the equipment used for solid-solid mixing.
- g. Define Different types of rectifying columns.
- Define LOD.
- Define Drying and its importance in dosage forms.
- Mention the factors affecting constant drying rate.

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- k. Define flash distillation
- Define Impact and attrition in size reduction.
- m. Differentiate ideal and actual screens.
- Define Mechanism of mixing in liquid.
- o. Define Principle of sigma blade mixer.

# SECTION-B

- Explain the principle of freeze drying.
- 3. What is meant by steam distillation? What are its special advantages?
- 4. Explain the principle and working of fluidized bed dryer.
- Describe the mechanism of size reduction with suitable examples of equipments.
- Explain the working of a mixture used for mixing dry powder before granulation.

#### SECTION-C

- Describe the construction, working and advantages of multipass heater.
- Explain principle, working and applications of film evaporator.
- Discuss the construction, working and advantages of drum dryer.
- Describe the construction, working advantages and disadvantages of fluid energy mill.

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

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