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Roll No. Total	I No. of Pages : 02
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# B.Pharma (2011 to 2016) (Sem.-3) PHARMACEUTICS-III (Unit Operation-I)

Subject Code : BPHM-303 M.Code : 46223

Time: 3 Hrs. Max. Marks: 80

## INSTRUCTION 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

# Answer briefly :

- a. Laminar Flow
- b. Mass flow rate
- c. Pneumatic conveyors
- d. Darcy Law
- e. Woven filter media
- f. Crystal growth
- g. Crystal cracking
- h. Psychrometric chart
- i. Principle of refrigeration
- Chemical hazards
- Role of pentagon in dust hazards

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- Applications of glass as material for plant construction
- m. Boundary layer
- n. Factors affecting filtration
- Tubular bowl centrifuge

# SECTION-B

- Write a note on various nucleation mechanisms.
- Describe the construction and working of rotary filters.
- Highlight the importance of accident records in industry.
- Give the construction and working of spray ponds.
- Write a note on types of materials used in plant construction.

#### SECTION-C

- Describe in detail the principle, construction and working of centrifugal pumps.
- Write a note on various types of crystallizers and tanks.
- What is air conditioning? Highlight its principle and importance in pharmaceutical industry.
- Describe the construction and working of rotameters.

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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