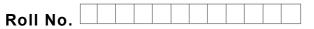
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Total No. of Pages : 02

Total No. of Questions : 10

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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 :

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

SECTION-A SECTION-A

- 1. 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
 - j. Chemical hazards
 - k. Role of pentagon in dust hazards

1 M-46223

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

SECTION-B

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

SECTION-C

- 7. Describe in detail the principle, construction and working of centrifugal pumps.
- 8. Write a note on various types of crystallizers and tanks.
- 9. What is air conditioning? Highlight its principle and importance in pharmaceutical industry.
- 10. 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.

2 | M-46223

(S4)-2407