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Total No. of Pages : 02

Total No. of Questions : 24

**B.Pharma (2012 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****Answer briefly :**

1. Define dimensional equation.
2. How is the rate of a reaction expressed?
3. What is Reynolds number?
4. Explain the term filter media.
5. Define centrifugation.
6. What are the applications of air conditioning?
7. Define different mechanisms of filtration.
8. Define QO Valves.
9. Define Mier's Supersaturation theory.
10. Define the term dew point.
11. Define Darcy's equation.





12. Define crystal lattice.
13. Define refrigerants.
14. Define dehumidification process.
15. Define solubility curves.

#### **SECTION-B**

16. Write construction and working of a centrifugal pump.
17. Define the construction and working of vacuum crystallizer.
18. Describe the working of refrigerator.
19. Describe the factors affecting caking and prevention of caking.
20. Explain industrial pollution and control.

#### **SECTION-C**

21. Describe the principle, construction, working and applications of chain conveyors.
22. Explain principle, working and applications of semi-continuous centrifuge.
23. Explain principle, construction, working and applications of cartridge filter.
24. Explain the principle and working of air conditioner.

**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.**

