

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]  
(2124)

1683

**B. Pharmacy 3rd Semester Examination**  
**Pharmaceutics-II (Unit Operations) (OS)**  
**HBP-201**

**Time : 3 Hours**

**Max. Marks : 80**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt one question from Section A, B, C and D. Section E is compulsory.

**SECTION - A**

1. Write notes on
  - (i) Bernoulli's theorem
  - (ii) Volute pumps (8+8=16)
2. Discuss the construction, working and applications of venturimeter. (16)

**SECTION - B**

3. Write notes on
  - (i) Filter aids
  - (ii) Disc centrifuges (8+8=16)
4. Write notes on
  - (i) Types of crystallizer tanks
  - (ii) Highlight the importance of characteristics of crystals. (8+8=16)

**[P.T.O.]**

**SECTION - C**

5. Discuss in detail the principle behind refrigeration. (16)
6. Write a note on the various equipments used for dehumidification. (16)

**SECTION - D**

7. Discuss the various factors affecting the choice of material for plant construction. (16)
8. Write a note on industrial hazards with special reference to fire hazard and their prevention. (16)

**SECTION - E**

9. Write brief notes on:
  - (i) Galvanic corrosion
  - (ii) Carnot cycle
  - (iii) Dew Point
  - (iv) Boundary layer
  - (v) Unit Process
  - (vi) Current meters
  - (vii) Centrifugation
  - (viii) Gas laws

(2×8=16)