

Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-3)
PHARMACEUTICS-III (Unit Operation-I)
Subject Code : BPHM-303
Paper ID : [D1124]

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 has to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students has to attempt any THREE questions.

SECTION-A**1. Answer briefly :**

- i. Define the term unit operation.
- ii. Define mass balance.
- iii. What is Reynolds number? Describe its importance.
- iv. Explain the term filter aids.
- v. Define ultracentrifugation.
- vi. What are the applications of air conditioning?
- vii. Define different mechanisms of filtration.
- viii. Define QO Valves.
- ix. Define Mier's Supersaturation theory.
- x. Define the term dew point.
- xi. Define Kozeny-Carman equation.

- xii. Define crystal lattice.
- xiii. Define refrigerants.
- xiv. Define dehumidification process.
- xv. Define wet bulb temperature.

SECTION-B

- 2. Describe the working of refrigerator.
- 3. Describe the construction and working of perforated basket centrifuge.
- 4. Write construction and working of a reciprocating pump.
- 5. Describe the factors affecting caking and prevention of caking.
- 6. Explain industrial pollution and control.

SECTION-C

- 7. Explain the principle and working of air conditioner.
- 8. Explain principle, working and applications of venturi meter.
- 9. Explain principle, construction, working and applications of drum filter.
- 10. Describe the principle, construction, working and applications of pneumatic conveyors.