Total No. of Page

B.Pharmacy (Sem. - 3rd)

PHARMACEUTICS - II (Unit Operations 1)

SUBJECT CODE: PHM-2.3.1

Paper ID : [D0112]

[Note: Please fill subject code and paper ID on OMR]

Maximum Marks: 80

Time: 03 Hours

Instruction to Candidates:

- 1) Section - A is Compulsory.
- 2) Attempt any Four questions from Section - B.
- Attempt any **Three** questions from Section C. 3)

Section - A

Q1)

 $(15 \times 2 = 30)$

- Unit operations. a)
- Reynold's number. b)
- Filter aids.
- Air Conditioning.
- Flow meters.
- Corrosion. f)
- Crystal habit and crystal forms.
- Viscosity. h)
- i) Dry bulb temperature and wet bulb temperature.
- Industrial dermatitis. i)
- Psychrometry. k)
- Dew point. 1)
- m) Bernoulli's theorem.
- Caking of crystals.
- o) Darcy's equation.

Section - B

 $(4 \times 5 = 20)$

- Q2) Differentiate between orifice meter and venturimeter.
- Q3) Write short note on the importance of crystallization in pharmaceutical preparation.
- Q4) Write short note on filter medium.
- Q5) What are various factors that affect the choice of material for plant construction?
- **Q6)** Write a note on the application of humidity measurement in pharmacy.

Section - C

 $(3 \times 10 = 30)$

- Q7) Classify manometers. Derive an equation for the measurement of pressure difference in differential manometer.
- Q8) Write short notes on any two:
 - (a) Mier's supersaturation theory.
 - (b) Conveyors.
 - (c) Pumps.
- (a) Write an account on the application of refrigeration.
 - (b) Write an account on the safety aspects from dust hazards.
- Q10) Explain the principle, construction and working of plate and frame press.

