

Roll No.

Total No. of Questions : 10]

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B. Pharmacy (Sem. - 3rd)

PHARMACEUTICS - II

(Unit Operation - I)

SUBJECT CODE : PHM-2.3.1.

Paper ID : [D0112]

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

Time : 03 Hours

Maximum Marks : 80

Instruction to Candidates:

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

Section - A

Q1)

(15 x 2 = 30)

- a) List the factories influencing the rate of Filtration.
- b) Write Kozeny-Carman equation and give its application?
- c) Define 'Bunkers'.
- d) How are Eddies formed during fluid flow?
- e) What is application of Air conditioning?
- f) Write about 'Air-Lift'.
- g) Define Crystal lattice and Crystal habit.
- h) Draw a Humidity chart and give its application?
- i) Differentiate between Air-conditioner & Dehumidifier.
- j) Highlight the Role of oxygen in the corrosion of metals?
- k) What is Electrostatic precipitator?
- l) Explain the importance of Stainless steel in pharmaceutical industry.
- m) What is meant by 'Air binding' in pumps? How do you overcome the problem?
- n) What is meant by 'Equivalent pipe length'? What are its applications?
- o) Explain the principle behind Centrifugal separation.

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Section - B

(4 x 5 = 20)

- Q2)** Describe the construction and working of Leaf filters?
- Q3)** Describe the salient features of Vacuum crystallizer.
- Q4)** Describe the working of a Refrigerator?
- Q5)** Describe various types of Iron as materials of construction.
- Q6)** What is Corrosion? Mention the factors that influence rate of corrosion.

Section - C

(3 x 10 = 30)

- Q7)** Explain the construction and working, advantages disadvantages of Plate & Frame filter?
- Q8)** Discuss the Mier's super saturation theory of crystallization. What are limitations of Mier's theory?
- Q9)** Classify Valves. Explain the construction and working of various valves using their sectional views.
- Q10)** Draw a neat-labeled diagram of Swenson walker crystallizer discuss the construction working, advantages and disadvantages.

