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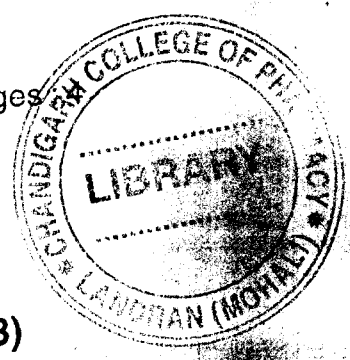
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Roll No.....

Total No. of Questions : 10]

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PHARMACEUTICS-II
(Unit Operations-I)



(B. Pharmacy, 3rd Semester, 2123)

Time : 3 Hours

Maximum Marks : 80

Note :- This paper consists of Three Sections.
Section A is compulsory. Attempt any *four* questions from Section B. Attempt any *three* questions from Section C.

Section-A Marks : 2 Each

1. Answer the following questions in 2-5 lines each :
- (a) Define Yield.
 - (b) Write Bernoulli's Equation.
 - (c) What is Humid Volume ?

Turn Over

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- (d) What is meant by air conditioning ?
- (e) enlist different types of gas handling devices.
- (f) What is the function of pneumatic conveyors ?
- (g) Name different types of valves used in industry.
- (h) Name some industrial filters.
- (i) What are centrifugal sedimenters ?
- (j) What is meant by caking of crystals ?
- (k) What are adiabatic saturation curves ?
- (l) What are the different equipments used for measuring pressures ?
- (m) Give composition of Stainless Steel (SS-316).
- (n) Enlist various characteristics of crystals.
- (o) Differentiate between laminar and turbulent flow.

Section--B Marks : 5 Each

2. What is meant by Corrosion ? Give various methods to prevent corrosion.
3. What are Flow Meters ? Explain the working of venturimeter.
4. Explain the working and construction of Reciprocating Pumps
5. What are the factors which affect filtration ? Explain the components of cycle time in batch filters.
6. What are psychrometric charts ? How are they useful in Pharmacy ?

Section--C Marks : 10 Each

7. Explain the terms :
relative humidity, dry bulb temperature, adiabatic saturation curves and dehumidification.
8. Explain different types of possible hazards in industry and ways to prevent them.

Run Over

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9. What is meant by yield ? Explain how yield of Swenson Walker crystallizer is calculated.
10. (a) What are solubility curves ? How are they helpful in calculating yield ?
- (b) Explain the working of filter press. 5,5