[Total No. of Questions - 18] [Total No. of Printed Pages - 2] (2063)

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B. Pharmacy 2nd Semester Examination Unit Operations-I (NS)

BP-123

Time: 3 Hours Max. Marks: 70

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 any two questions from section A, any eight questions from Section B. Section C is compulsory.

SECTION - A

- Explain principle, construction, working & merits of vacuum crystallizer.
- Discuss construction & working of a centrifuge used for separation of slurry containing high solid contents.
- 3. Describe the construction, working, advantages& disadvantages of double reciprocating pump. (2×10)

SECTION - B

- 1. Discuss mechanisms of filtration.
- 2. Explain utility of glass & steel in Pharm. industry.
- 3. Describe mechanical & chemical industrial hazards.

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 (8×5)

- 4. Discuss caking of crystals and factors affecting & preventive measures for caking.
- 5. What do you understand by Reynolds number?
- 6. What is dehumidification? Give its applications.
- 7. How solubility curve helps in predicting experimental conditions for crystallization.
- 8. Describe theory of centrifugation.
- 9. Discuss construction & working of leaf filters.
- 10. Give construction working of pneumatic conveyor.

SECTION - C

- 1. Enumerate different types of crystals.
- 2. Define humidity & dew point.
- 3. Give principle of centrifugal separation.
- 4. Differentiate between filtration & clarification.
- 5. What are pumps? Give their classification. (5×2)