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(2066)

16359(J) 5-16

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

1. Explain principle, construction, working uses, advantages and disadvantages of rotary filter. (10)
2. Describe principle, construction, working uses and merits of Krystal crystallizer. (10)
3. Describe the construction, working and uses of double action reciprocating pump. (10)

SECTION - B

4. Explain super saturation theory and its limitations. (5)
5. Give the construction, working of orifice meter. (5)
6. Explain factors affecting crystallization. (5)
7. Enumerate basic laws of unit operations. (5)
8. Explain Reynolds experiment. (5)

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9. Describe construction, working and applications of meta filter. (5)
10. Give the principle and applications of refrigeration. (5)
11. Explain the industrial pollution and control. (5)
12. Enumerate the applications of humidity measurement in pharmaceutical processes. (5)
13. What are the properties and applications of steel as a material of construction? (5)

SECTION - C

14. What is unit operation and unit process? (2)
15. Explain the basic equation of fluid flow. (2)
16. Enumerate different filter media. (2)
17. What are various factors affecting caking of crystals? (2)
18. What are bins and bunkers? (2)

[P.T.O.]