

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
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B. Pharmacy 3rd Semester Examination

Unit Operation-II (N.S.)

BP-232

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 and *Eight* questions from Section B. *All* questions in Section C are compulsory.

SECTION - A

1. Explain principle, construction, working, advantages and disadvantages of a ball mill. (10)
2. Discuss the factors affecting evaporation and explain its scope and advantages. (10)
3. Describe the Fourier's law of heat transfer. Discuss in detail about resistance observed in series with relevant mathematical equation. (10)

SECTION - B

4. Write a short note on scope and application of drying in field of pharmacy? (5)
5. What is tie substance? Explain principle of material balance taking example of tie substance. (5)
6. Explain the principal, advantage and disadvantage of short tube evaporator with neat diagram. (5)

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7. Write a short note on steam as heating media. (5)
8. Explain different mode of heat transfer in detail. (5)
9. Define relative volatility. Explain application of distillation. (5)
10. Write a note on plate and packed column. (5)
11. Write a short note on planetary mixer. (5)
12. Discuss scope and application of automation in field of pharmacy. (5)
13. Describe various types of chemical reaction. Write a note on optimum economic design. (5)

SECTION - C

14. Give the principal of Azeotropic distillation. (2)
15. Describe the Raoult's Law. (2)
16. Give the classification of dryers with examples. (2)
17. Define: Equilibrium moisture content and Critical moisture content (2)
18. Explain dimensionless formula with example. (2)