

[Total No. of Questions - 9]
(2063)

[Total No. of Printed Pages - 2]

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B. Pharmacy 4th Semester Examination

Pharmaceutics-III

HBP-202

Time : 3 Hours

Max. Marks : 80

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 five question in all, selecting one question from each of the section A, B, C & D and all the subparts of the question in Section E.

SECTION - A

1. Define ideal gas law. Write about basic postulates of kinetic theory of gas. Explain deviation from ideal behaviour. (16)
2. Discuss the use of steam as heating media. How boiler capacity can be determined? (16)

SECTION - B

3. With the help of diagram discuss the principle, Construction & working of climbing film evaporator. (16)
4. How number of theoretical plates can be calculated using McCabe-Thiele method? (16)

SECTION - C

5. Explain in detail about various convection dryers with special emphasis on Principle & Working. (16)

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6. (a) Write about mechanism & applications of size separation. (6)
- (b) Write in detail about sieving & cyclone separator. (10)

SECTION - D

7. Explain theory of mixing. Write in detail about various mixers used for solid-solid mixing. (16)
8. (a) Write about various factors to be considered while designing a reactor. (6)
- (b) Write about construction & working of fermentor. (10)

SECTION - E

9. (a) Explain stoke's law. (2)
- (b) Define Azeotropes. (2)
- (c) Write about application of freeze drying. (2)
- (d) Define FML & LOD. (2)
- (e) Define conduction & convection. (2)
- (f) Define stoichiometry. (2)
- (g) What is flash distillation. (2)
- (h) Classify powder according to B.P. standards. (2)