[Total No. of Questions - 9] [Total No. of Printed Pages - 2] (2064)

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B. Pharmacy 4th Semester Examination Pharmaceutics-III (O.S.)

HBP-202

Time: 3 Hours Max. Marks: 80

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Candidates are required to attempt five questions in all selecting one question from each of section A, B, C & D and all the subparts of question in Section-E.

SECTION - A

- 1. (a) Define Stoichiometry. Write about general principles of stoichiometry. (10)
 - (b) Write about line graph, Bar graph & pie graph. (6)
- 2. (a) Describe various modes of heat transfer. (10)
 - (b) How amount of steam energy be determined? (6)

SECTION - B

- 3. Classify evaporators. Explain principle, construction & working of multiple effect evaporator. How you can calculate economy of multiple effect evaporators? (16)
- 4. Define molecular distillation. Write in detail about various molecular distillation apparatus. (16)

SECTION - C

5. Explain the mechanism of dying. Write about principle, construction & working of fluidized bed dryer. (16)

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- 6. (a) Write about various factors affecting size reduction. (8)
 - (b) Classify various milling equipments. Write about fluid energy mill. (8)

SECTION - D

- 7. Write about various mechanism of liquid-liquid mixing. Describe various types of mixers used for liquid mixing. (16)
- 8. Discuss various process control system. How computers help in increasing productivity? (16)

SECTION - E

- 9. (a) Define Rectification.
 - (b) What do you mean by HETP?
 - (c) Define unit operation with example.
 - (d) Define EMC and CMC.
 - (e) Describe Phase Rule and Degree of freedom.
 - (f) Define coarse & fine powder.
 - (g) What do you mean by positive & negative mixtures?
 - (h) Define Fourier's law. (2×8=16)