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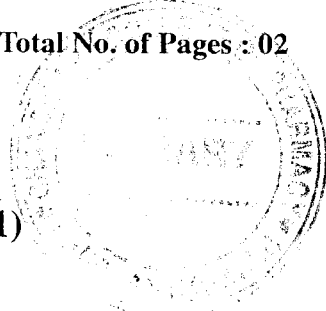
Total No. of Questions : 10]

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B.Pharmacy (Semester - 4th)
PHARMACEUTICS - III (PHM - 2.4.1)
(UNIT OPERATIONS - II)



Time : 03 Hours

Maximum Marks : 80

Instruction to Candidates:

- 1) Section - A is **compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Three** questions from Section - C.

Section - A

Q1)

(15 x 2 = 30)

- a) Define primary and secondary quantities with suitable examples.
- b) Write various heat transfer mechanisms with suitable examples.
- c) Differentiate evaporation from Drying.
- d) Write the principle involved in Distillation?
- e) Define "Mixing" and "Demixing".
- f) Write the applications of freeze drying on pharmacy.
- g) Write the equipment used in solid-solid mixing?
- h) Explain "azeotropic distillation".
- i) Define Automated Process Control? Write about its advantages.
- j) Classify evaporators?
- k) Explain the role of condensers in Evaporation?
- l) Define Mixing Index?
- m) What are the various process variables to be monitored in Automatic process control system?
- n) Suggest suitable dryer to obtain milk powder from milk? Support your answer with reasons?
- o) Explain why steam is used frequently as source of heat in heaters?

P.T.O.

