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Total No. of Pages : 02

Total No. of Questions : 10

## B.Pharmacy (Sem.-4) PHARMACEUTICS-III (UNIT OPERATION-II) Subject Code : PHM-241 Paper ID : [D0159]

Time: 3 Hrs.

Max. Marks: 80

## **INSTRUCTIONS TO CANDIDATES :**

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO 1. marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- 3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

## **SECTION-A**

#### 1. **Answer briefly :**

- anker.com a) What is meant by mole volume?
- b) Define Raoult's Law.
- c) What is Boiler Capacity?
- d) Give example of a size reduction machine operating by attrition mechanism.
- e) What is 'latent heat'?
- f) What is triple point?
- g) Define critical moisture content.
- h) What is equilibrium moisture content?
- i) What is loss on drying?
- i) What is an Azeotropic mixture?
- k) Name two liquid-solid mixing equipments.

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- 1) Mention the principle of operation of a free dryer.
- m) What is evaporation and how does it differ from sublimation?
- n) Mention the units of measuring steam pressure.
- o) Define flash distillation process and mention its applications.

### **SECTION-B**

- 2. What is a boiler capacity and how it is determined?
- 3. Explain the steps involved in evaporation. Mention the factors affecting evaporation rate.
- 4. Enumerate solid-solid mixing equipments and explain the working of any one.
- 5. Discuss briefly the working of a fluidized bed dryer.
- 6. Discuss the operation of a ball mill. Mention the modifications of a ball mill and their applications.

# SECTION-C

- 7. Discus the theory of heat transfer and compare steam and electricity as source of heat for pharmaceutical operations.
- 8. Discuss the concept and mechanism of operation of multiple effect evaporators.
- 9. What is rectification? Discuss the method used for calculating number of theoretical plates.
- 10. Discuss the factors influencing size reduction process.