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## **CM-7004(2)-CBGS**

### **B.E. VII Semester**

Examination, June 2020

## **Choice Based Grading System (CBGS)**

### **Pharmaceutical Technology**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. Explain the working principle and uses of the following operations in pharmaceutical industries. 14
  - a) Distillation
  - b) Mixing
  - c) Crystallization
  
2. a) How does the dosage form in made sterile by using different methods of sterilization? Explain in detail. 10  
b) What is filtration and sealing of sterile dosage forms? 4
  
3. a) Write difference between the mechanisms of air conditioning and refrigeration equipments. 7  
b) Write short note on packing and labeling of sterile dosage form? 7
  
4. a) Describe the manufacturing of tablets by wet granulation process. 7  
b) Describe the formation and preparation of filled hard gelatin capsules. 7

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5. What are the factors to be considered in formulation of antiperspirant, shampoos and deodorants? 14
6. a) Discuss in brief the following tablet standardization tests: 7
- i) Hardness
  - ii) Disintegration
  - iii) Dissolution
- b) What are the components which needs to be considered in packing of pharmaceutical products? 7
7. What are the different types of pharmaceuticals containers and closures? Discuss their materials of construction. 14
8. a) What are cosmetics and Toiletries? List name of some cosmetics and toiletries. 7
- b) Discuss in brief the major difference between dry granulation and direct compression techniques of manufacture of tablets. 7

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