

II B. Pharmacy I Semester Supplementary Examinations, May - 2019
PHARMACEUTICAL UNIT OPERATIONS-I

Time: 3 hours

Max. Marks: 70

- Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **FOUR** Questions from **Part-B**
- ~~~~~

PART -A

1. a) What is non-uniform flow? (2M)
- b) Write significance of steam distillation. (2M)
- c) What are the applications of freeze drying? (2M)
- d) What is caking of crystals? (2M)
- e) What is relative volatility? (2M)
- f) Write the applications of Wet bulb thermometer. (2M)
- g) What is corrosion? (2M)

PART -B

2. a) Write in brief on Bernouli's principle. (7M)
- b) Give a neat sketch of any one fluid manometers and explain its working principle. (7M)
3. a) Write the principle, construction and working of volute pump. (7M)
- b) Write a note on chute and vibrating conveyors. (7M)
4. a) Write in detail on filter-aids. (9M)
- b) Discuss the principle and working of centrifugal filter. (5M)
5. a) Discuss the mechanism of crystallization. (7M)
- b) With a neat sketch explain the working of agitated batch crystallizer. (7M)
6. a) Write in detail on Psychrometric chart. (7M)
- b) Describe the working principle of refrigerator. (7M)
7. a) Write in detail on properties and applications of glass as a construction material. (7M)
- b) What are industrial hazards? Why do they happen? Write in brief on accident records. (7M)