

II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2020
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**
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PART -A

1. a) What is pressure head how it is calculated? (2M)
- b) Differentiate fans and blowers. (2M)
- c) Differentiate filtration and clarification. (2M)
- d) Write the applications of crystallization. (2M)
- e) Define relative humidity and humidity. (2M)
- f) What is corrosion? List types of corrosion? (2M)
- g) What is industrial dermatitis? (2M)

PART -B

2. a) Describe the Reynolds experiment. (7M)
- b) Discuss the construction and working of Rotameter. (7M)
3. Write a detailed note on design, working of belt conveyor Give its pharmaceutical applications? (14M)
4. a) Explain the design, working applications of Rotary filter. (10M)
- b) Write a note on filter media. (4M)
5. a) Describe the construction and working of agitated tank crystallizer. (9M)
- b) Explain material and heat balance in crystallization. (5M)
6. a) Explain method of measure of humidity. (7M)
- b) Discuss principle of refrigeration? (7M)
7. Write a note on (14M)
(i) Glass as a material (ii) Electric hazards