

Printed Pages: 02

Subject Code:RPH302

Paper Id:

150312

Roll No:

--	--	--	--	--	--	--	--	--	--

BPHARM
(SEM III) THEORY EXAMINATION 2018-19
PHARMACEUTICS II (UNIT OPERATIONS)

Time: 3 Hours

Total Marks:70

Notes: Assume any Missing Data.

SECTION A

1. Attempt all parts. All parts carry equal marks **2x7=14**

- a. What are filter aids and their different examples of filter aids?
- b. Write the various processes involved in purification of water?
- c. What are psychometric charts?
- d. Define the process variables.
- e. Differentiate between dry and wet bulb temperature.
- f. Write down the different types of dryers?
- g. Discuss the mechanism of centrifugation?

SECTION B

2. Attempt any three of the following: **7 x 3 = 21**

- a. Write a note on filter press and rotary filter in detail with their advantages and disadvantages.
- b. Give the classification of dryers? Discuss tray dryers used in pharmaceutical industries in detail.
- c. What are different possible industrial hazards? How they can be controlled in industry?
- d. What are the different types of water system? Explain the quality requirement and process of distillation of water.
- e. Write a note on refrigeration process.

SECTION C

3. Attempt any one part of the following: **7 x 1 = 7**

- a. Explain filtration process? Give their types and different mechanisms of filtration.
- b. Explain rotatory drum filter with help of diagram.

4. Attempt any one part of the following: **7 x 1 = 7**

- a. Write a note on moisture content and explain the various mechanisms involved in drying.
- b. Give idea about the materials of construction with special reference to stainless steel.

5. Attempt any one part of the following: **7 x 1 = 7**

- a. Discuss about the dehumidification equipments in detail.
- b. Write the note on working, principles and applications of fluidized bed dryer methods.

6. Attempt any one part of the following: **7 x 1 = 7**

- a. Write in brief for Accidental records.
- b. What is the steady and unsteady state?

7. Attempt any one part of the following: **7 x 1 = 7**

- a. What is centrifugation? Discuss super centrifuge in detail.
- b. Explain principle and working of edge filter.