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SET- I

## Subject Code: B132201/R13

## **II B.Pharmacy II Semester Supplementary Examinations, April – 2018**

## PHARMACEUTICAL UNIT OPERATIONS-II

#### 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 THREE Questions from Part-B

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## PART-A

- 1. a) Explain various modes of heat transfer with examples.
  - b) Define evaporation and mention about theory of evaporation.
  - c) Write a detail note on fractionating column.
  - d) Explain in brief about theory of drying.
  - e) Give an account on laws governing energy and power requirements of a mill.
  - f) Write a note on vortex formation and give various methods for prevention of it. [3+4+4+4+4]

# <u>PART-B</u>

2.	(a) State and explain Fourier's law of conduction of heat through a metallic wall.	
	(b) Give a note on steam pressure and boiler capacity.	[8+8]
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3.	(a) Write the principle, construction and working of climbing film evaporator.	
	(b) Write a note on multiple effect evaporators.	[8+8]
4.	(a) Define Raoult's law and add a note on principles of rectification.	
	(b) Explain the principle, construction and working of flash distillation.	[8+8]
5.	(a) Explain the principle, construction and working of freeze dryer.	
	(b) Give a detail note on the dryer used for the drying of sterile products.	[8+8]
6.	(a) Explain different modes of size reduction and add a note on ball mill.	
	(b) Write in detail about principle, construction and working of fluid energy mill.	[8+8]
7.	(a) Write a note on theory of solid-solid mixing.	
	(b) Write the principle, construction, working & uses of planetary mixer.	[8+8]
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