



II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2017 PHARMACEUTICAL UNIT OPERATIONS-I

		I HARMACEUTICAL UNIT OF ERATIONS-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 THREE Questions from Part-B			
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<u>PART –A</u>					
1.	a)	With labeled diagram explain the working of pitot tube.	(3M)		
	b)	Differentiate fans and blowers.	(3M)		
	c)	What are filter aids? Give their mechanism of action.	(4M)		
	d)	Explain material balance in crystallization.	(4M)		

- e) Explain the terms, percent humidity and relative humidity. (4M)
- f) Write the factors influencing selection of materials for plant construction. (4M)

## PART -B

2.	a)	Explain Bernoulli's theorem and its applications.	(8M)
	b)	Describe the construction, working and applications of Orifice meter.	(8M)
3.	a)	Write the principle, construction and working of volute pump.	(8M)
	b)	Explain the construction and working of belt conveyor.	(8M)
4.	a)	Give a detailed note on factors affecting rate of filtration.	(8M)
	b)	Describe the construction and working of perforated basket centrifuge.	(8M)
5.	a)	Explain Mier's theory of super saturation along with its limitations.	(9M)
	b)	Explain the design and working of Krystal crystallizer.	(7M)
6.	a)	Explain utility of humidity chart.	(8M)
	b)	With a neat diagram explain principles and working of air conditioner.	(8M)
7.	a)	Discuss types of corrosion and suggest methods to overcome.	(10M)
	b)	Give an account on chemical hazards and its safety Precautions.	(6M)

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