BACHELOR OF PHARMACY (B.PHARM THIRD YEAR) SIXTH SEMESTER BP601 - PHARMACEUTICAL ENGINEERING-II

P. Pages: 1

Time : Three Hours

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GUG/W/18/1176

Max. Marks: 80

	Note	es: 1. All questions carry equal marks.	
	11000	2. Question No. 1 is compulsory.	
		3. Diagrams should be given wherever necessary.	
		4. Illustrate your answers wherever necessary with the help of neat sketches.	
		5. Solve any four from remaining.	
1.		Define crystallization. Explain its applications, characteristics of crystals and theory of crystallization?	16
2.	a)	Classify evaporators. Describe construction and working of a film evaporator.	10
	b)	Elaborate the concept of multiple effect evaporation what specific advantages does it offer?	6
3.		Describe the concept of spray drying Describe the specific advantages of spray dried product over drum dried material. Also list the pharmaceutical applications.	16
4.	a)	Define humidification and dehumidification and explain its mechanism?	8
	b)	Define an equation for heat transmission through a circular pipe, from Fourier's Law.	8
5.	a)	Explain factor affecting corrosion process?	8
	b)	Explain theory of corrosion and factors influencing corrosion?	8
6.	a)	Describe the construction, Operation of climbing film evaporator.	8
	b)	Write a note on prevention & control of corrosion.	8
7.		Write a short note on any two .	16
		a) Krystal crystallizer.	
		b) Theory of drying.	

c) Caking of crystals.
