QP CODE:204008		Reg.No:
Second B.Pharm (Ayurveda) Degree Examinations, October 2013		
Pharmaceutical Engineering		
Time: 3		Total Marks: 100
Essays:	 Answer all questions. 	(2x10=20)
1.	Describe the factors that influence the reduction in pharmaceutical industry. fluid energy mill	selection of milling equipment for size Explain the construction and working of
2.	Define evaporation and classify them. vertical tube evaporator	Describe the working of standard short
Answer briefly: (10		(10x5=50)
3.	Caking of crystals and prevention of c	aking
4.	Describe the working of spray drier. a	nd its application
5.	5. Automatic process control system used in industries	
6.	6. Working of plate and frame filter press	
7.	Bernoulle's equation	
8.	Various factors influencing the rate of	filtration
9.	9. Define Fouriers laws of conduction of heat through a metal wall and mention its equation	
10	. Working of an equipment used for the phases	separation of two immisible liquid
11	. Distinguish continuous and batch filter	s with example
12	2. Mention the outlines of a humidity cha terms could be calculated	rt, explain how various humidity related
Short notes: (10x		(10x3=30)
13. Define: rate of drying, critical moisture and bound moisture		and bound moisture
	. Flash distillation	
15.Describe the three modes of heat transfer		
16. Reynold's number		
17. Differentiate crystalline and amorphous solids		
18	18.List three advantages of fluidized bed drier	
19). Valves	
20	D. Define corrosion and distinguish dry &	wet corrosion
21	. Working the Roller mill with diagram	
22	2. State Kinck's law of size reduction	