Seat 1	No.: _		Enrolment No	
В	. Pha		DLOGICAL UNIVERSITY llabus) • EXAMINATION – SUMMER • 2015	
Subject Code: 210005			Date: 05-06-2015	
	e: 02	Name: Pharmaceutics-I 2:30 pm - 05:30 pm	Total Marks: 80	
msu	1. 2.	Attempt any five questions. Make suitable assumptions whe Figures to the right indicate full		
Q.1	(a)	process.	ification. Discuss Darcy's Law for filtration	06
	(b) (c)	·		
		Pressure difference (lbf/inch ²) 3	Specific cake resistance [(lbf)(h))/(lb)(ft)] 2.8	
		6	3.6	
Q.2	(a) (b) (c)	Derive the equation for centrifug centrifugal operations in pharma Describe perforated basket centr Write note on filter press.		06 05 05
Q.3	(a) (b) (c)	Comment: Evaporation under reduced pressure is always advantageous. Discuss BPR and Raoult's law. Describe multiple effect evaporation.		
Q.4	(a) (b) (c)	Describe the steam distillation process.		06 05 05
Q.5	(a) (b) (c)	Discuss the process of spray drying Paracetamol granules containing being dried in a drier. Granules of per hr to 50 % moisture content and the street of th	be the drying curve with various phases. ing. 80 lb of water/ 100 lb of dry granules are dry at a constant rate of 5 lb water/ lb granules and then at a rate which is proportional to ime required to reach a water content of 1%	06 05 05

Q. 6	(a)	Explain: WBT and DBT. Discuss applications of humidity control in pharmacy.	06
	(b)	Describe absorption refrigeration cycle with diagram.	05
	(c)	Draw a labeled diagram of humidifier with essential components.	05
Q. 7	(a)	Explain: HETP and reflux ratio. Write note on extractive distillation.	06
_	(b)	Describe mechanical hygrometers with diagram.	05
	(c)	Discuss principle, advantages and disadvantages of lyophilization.	05
