Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2014

Subject Code: 2210001			Date: 18-06-2014	
	Time	ect Name: Unit Operation-I e: 02:30 pm - 05:30 pm actions:	Total Marks: 80	
		 Attempt any five questions. Make suitable assumptions whereve Figures to the right indicate full man 		
Q.1	(a) (b)	<u>*</u>		06 05
	(c)	Explain in detail the objectives for size re	eduction.	05
Q.2		Describe with a clean and labelled working, advantages, disadvantages and	application of cyclone separator.	06
	(b) (c)	Write a detailed note on elutriation method Give the classification of powders based standard for sieves.	*	05 05
Q.3	(a) (b)	-	_	06 05
	(c)	Explain in detail the Planetary mixer.		05
Q.4	(a) (b) (c)	What is Unit Cell. Explain various types Explain in detail the theory of crystallizat 1). Differentiate crystallization and precip 2). Explain various method for achieving	ion. Ditation.	06 05 05
Q.5	(a) (b)	<u>.</u>	te on construction, principle, working,	06 05
	(c)	Discuss the various theories for calcureduction.	•	05
Q. 6	(a)	Enumerate various types of extraction profluid extraction method.	ocesses. Explain in detail supercritical	06
	(b) (c)	Differentiate maceration and percolation Discuss various solvents used in extraction	<u> </u>	05 05
Q.7	(a) (b) (c)	Write a note on temperature measurement Explain various industrial hazards and the Explain in detail flow level measurement	e measures to combat them.	06 05 05
