GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM- SEM-II-EXAMINATION – JUNE 2012			
			oate: 13/06/2012
Subject Name: Pharmaceutics - II			
			Total Marks: 80
Instr	uctio	ns:	
1.	Atten	npt any five questions.	
		suitable assumptions wherever necessary.	
3.	Figur	es to the right indicate full marks.	
Q.1	(a)	Define size reduction. Write a note on mechanisms of size reduction.	6
	(b)	Write a detailed note on factors affecting size reduction.	5
	(c)	Write a note on fluid energy mill.	5
Q.2	(a)	Explain the terms:	6
		1) Angle of repose	
		2) Carr's index	
	<i>a</i> >	3) Hausner ratio	_
	(b)	Classify the size separation methods and write a note on any	y one 5
	()	of them.	_
	(c)	Write about the applications of size separation in pharmacy	. 5
Q.3	(a)	Define mixing. Write the objectives of mixing.	6
	(b)	Write about the solid-solid mixing equipments.	5
	(c)	Write a note on propeller and turbine mixers.	5
Q.4	(a)	Why the crystals are preferred? Write about the various type crystals.	es of 6
	(b)	Classify the crystallizers. Write a note on any one of them.	5
	(c)	Write a note on spherical crystallization.	5
Q.5	(a)	Write about the various solvents used for extraction.	6
	(b)	Write a detailed note on percolation method of extraction.	5
	(c)	Enumerate the various applications of extraction in pharmac	ey. 5
Q.6	(a)	What do you understand by compaction and compression?	Write 6
	(1.)	about the effect of compressional force on powders.	_
	(b)	Write about Hecker and Kawatika equations.	5
	(c)	Write about the methods for generating the nanoparticles.	5
Q.7	(a)	Write a note on electrical and fire hazards.	6
	(b)	Write about the various techniques for the measurement of temperature.	5

Write about the elements of automatic process control system.

5

Enrolment No._____

(c)

Seat No.: _____