Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BPHARM – SEMESTER II • EXAMINATION – WINTER - 2013

Subject code: 220002 Date: 18-12-2013

**Subject Name: Pharmaceutics-II** 

Time: 10:30 am to 01:30 pm Total Marks: 80

## **Instructions:**

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Discuss the objective of size-reduction. Also discuss in brief factors affectin size reduction.	06
	(b)	Discribe mechanisms of size reduction.	05
	(c)	With diagram describe working and applications of microniser.	05
Q.2	(a)	Discribe with clearly labeled diagram the working of Swenson-Walker Crystallizers.	06
	(b)	Write a note on crystal size control.	05
	(c)	Discuss limitations of Miers theory of Supersaturation.	05
Q.3	(a)	Discuss with labeled diagram working and applications of planetary mixer.	06
	(b)	Describe mechanisms of liquid mixing.	05
	(c)	Describe types of mixtures.	05
Q.4	(a)	Discuss theory of Extraction of drugs.	06
	(b)	Write a note on solvents for drug extraction.	05
	(c)	Write a note on continuous extraction.	05
Q.5	(a)	Write a note on standards for powders.	06
	(b)	Discuss cyclone seperators and elutriation methods.	05
	(c)	Describe standards for Sieves.	05
Q. 6	(a)	What are the basic element s of automatic control systems? With a simple schematic diagram explain simple process control system.	06
	(b)	Describe various pressure and vacuum measuring systems with diagrams.	05
	(c)	Name various temperature measuring devices. Discuss briefly any two in details.	05
Q. 7	(a)	Discuss various safety related issues in pharmaceutical plants.	06
	(b)	Write a note on fire extinguishers.	05
	(c)	Explain terms 'Compaction' and 'Compression'. Describe the effect of Compression on a bed of powders.	05

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