

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. – SEMESTER II– • EXAMINATION – WINTER • 2015

Subject Code: 220002

Date: 08-12-2015

Subject Name: PHARMACEUTICS II

Time: 2.30 pm – 5.30 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) Write a note on theory of size reduction.	06
	(b) Which are the factors affecting size reduction?	05
	(c) Discuss: Ball mill with labeled diagram.	05
Q.2	(a) Write a note on principles of size separation.	06
	(b) Which are the factors affecting size separation?	05
	(c) Discuss: Elutriation type separators with labeled diagram.	05
Q.3	(a) Which are the different methods of generating nanoparticles?	06
	(b) Write a brief note on fluid energy mill.	05
	(c) What are the pharmaceutical applications of size separation?	05
Q.4	(a) Write a note on theory of mixing.	06
	(b) What is importance content uniformity in solid dosage form?	05
	(c) Classify different mixers and discuss any one.	05
Q.5	(a) Write in brief: factors affecting crystallization process.	06
	(b) Discuss Swenson walker crystallizer.	05
	(c) Discuss about polymorphism and amorphous forms of drugs.	05
Q. 6	(a) Write a note on soxhlet extraction apparatus.	06
	(b) Discuss: solvents used in extraction.	05
	(c) Give application of compaction and compression in tablet dosage form.	05
Q.7	(a) Discuss: chemical hazards in pharmaceutical industry.	06
	(b) How waste water treatment is done in pharmaceutical industry?	05
	(c) Write in brief on automated process control system.	05
