

GUJARAT TECHNOLOGICAL UNIVERSITY**BPHARM – SEMESTER I • EXAMINATION – SUMMER - 2013****Subject code: 220002****Date: 29-05-2013****Subject Name: Pharmaceutics-II****Time: 02:30 pm to 05:30 pm****Total Marks: 70****Instructions:**

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

Q.1	(a) Describe with diagram, Mechanism and applications of Ball-Mill.	06
	(b) Write a note on types of mixtures.	05
	(c) What are the limitations of miers theory of supersaturation?	05
Q.2	(a) Write a note on mechanisms of size reduction.	06
	(b) Describe soxhlet extractor for continuous hot extraction with labeled diagram.	05
	(c) Write the applications of crystallization in pharmaceutical industry.	05
Q.3	(a) Discuss about cyclone separator with labeled diagram.	06
	(b) Discuss the energy requirement in size reduction.	05
	(c) Write a note on colloidal mill.	05
Q.4	(a) Discuss briefly on effect of compression forces on a bed of granules.	06
	(b) Differentiate: Maceration and Percolation.	05
	(c) Write a note on solvents used for drug extraction.	05
Q.5	(a) What are the methods for waste water treatment in pharmaceutical industries?	06
	(b) Discuss automated process control.	05
	(c) Explain the theory of compaction and compression.	05
Q. 6	(a) What are the reasons for caking during crystallization? Give their remedies.	06
	(b) Enumerate methods used for size separation. Discuss in brief any one of them.	05
	(c) Explain positive mixtures, negative mixtures and neutral mixtures with their suitable examples.	05
Q.7	(a) Give the overview of different industrial hazards.	06
	(b) Write a note on multiple extractions.	05
	(c) Write a brief note on fire extinguisher.	05
