## **GUJARAT TECHNOLOGICAL UNIVERSITY** BPHARM – SEMESTER I • EXAMINATION – SUMMER - 2013

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.							
		the suitable assumptions wherever necessary.					
		gures to the right indicate full marks.					
	<b>J.</b> 11g	gures to the right indicate run 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	06				
	(b)	industries? Discuss automated process control.	05				
	(b) (c)	Explain the theory of compaction and compression.	05				
	(0)	Explain the theory of completion and complession.	00				
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	05				
		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				

\*\*\*\*\*