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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 1 EXAMINATION – WINTER -2019

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Subject Name: Unit Operation-I Time: 10:30 AM TO 01:30 PM Total Marks: 80 Instructions:			
		npt any five questions.	
		e suitable assumptions wherever necessary.	
3.	Figur	res to the right indicate full marks.	
Q.1	(a)	Explain mechanism involved in size reduction process.	06
	(b)	Explain factors affecting selection of methods of size reduction process	05
	(c)	Write a note on Ball mill.	05
Q.2	(a)	Draw neat labelled diagram of fluid energy mill and also write its advantages, disadvantages applications.	06
	(b)	Write a note on cyclone separator.	05
	(c)	Write a note on sedimentation tank used in size separation.	05
Q.3	(a)	Give standards of sieves as per pharmacopeia.	06
	(b)	Explain types of mixtures.	05
	(c)	Explain types of mixtures. Write a note on planetary mixer.	05
Q.4	(a)	Explain theory of mixing process.	06
X		R. C.	
	(b)	Write a note on propeller mixer.	05
	(c)	Explain Mier's supersaturation curve theory in detail.	05
Q.5	(a)	Explain various steps involved in crystallization process	06
	(b)	Discuss the factors affecting caking of crystal.	05
	(c)	Write applications of crystallization process.	05
Q. 6	(a)	Explain theory of extraction process.	06
Q. 0	(b)	Write a note on various solvents used in extraction process.	05
	(c)	Discuss Soxhlet extractor for continuous hot extraction.	05
Q.7	(a)	Enlist the types of extraction process and explain any two in brief.	06
	(b)	Discuss prevention of fire hazards.	05
	(c)	Define (1) Hazard (2) Accident (3) Process (4) Control (5) Instrumentation	05
