Q.5

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Seat No.: ____ Enrolment No. ____

GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph.-SEMESTER-II • EXAMINATION – SUMMER-2018

Su	bject	Code: 220002	Date: 19/05/2018	
Su	bject	Name: Pharmaceutics-II		
	C)	0:30 AM TO 01:30 PM	Total Marks: 80	
Ins	tructio	ons:		
		ttempt any five questions.		
		lake suitable assumptions wherever necessary.		
	3. Fi	igures to the right indicate full marks.		
Q.1	(a)	Explain principle, working, merits and demerits of Ball Mill with label diagram.		06
	(b)	Write note on factor influencing size reduction.		05
	(c)	Write a detail note on fluid energy mill.		05
Q.2	(a)	Differentiate between Elutriation and Sedimentation. Describe principle, construction and working of Elutriation tank.		06
	(b)	Describe various mechanisms for Size-Separation.		05
	(c)	Write the application of size separation in pharmacy		05
Q.3	(a)	Define mixing. Discuss about different types of mixtures with suitable examples.		06
	(b)	With a neat and labelled diagram explain the princip Mixer.	le and working of Planatory	05
	(c)	Describe in detail factors affecting mixing process.		05
Q.4	(a)	Discuss the Mier's supersaturation theory of crystall	ization. What are its	06
		limitations?		-
	(b) (c)	Explain the construction and working of Swenson W Explain Caking and prevention of caking.	alker crystallizer with diagram.	05

extraction.

(b) Discuss difference between Maceration & Percolation.

(c) Write a short note on Solvents of extraction process.

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(a) With a neat and labeled diagram describe the Soxhlet extractor for continuous hot

Q. 6 (a) Describe Hecker and Kawakita equations
(b) Write the objective and basic element of Process control system.

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(c) Give advantages of automated process control system.

Q.7 (a) Describe methods for waste water treatment in pharmaceutical industry.

(b) Discuss about chemical hazards and its prevention.

(c) Write short notes on mechanical hazards.

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