	Enrollment No:		Exam Seat No:				
		C.U.	SHAH UNIV	VERSITY	Y		
	Winter Examination-2015						
	Subject 1	Name: Pharmaceutic	al Industrial Process- I				
	Subject (Date :18)	Code: 4PS02PIP1 /11/2015	<b>Branch</b> :B.Pharmacy <b>Semester</b> : II <b>Time</b> :_10.30_To_1:30 Marks :70		<b>Marks</b> :70		
	(2) I (3) I	Use of Programmable instructions written o	e calculator & any other eld n main answer book are stand figures (if necessary) a if needed.	rictly to be obeyed.			
Q-1		Attempt the follow (MCQ/Short Type of	ving questions: of Questions=1 mark*14=1	14 marks)		(14)	
	<b>a</b> )		meant for wet grinding (				
	<b>b</b> )	It is difficult to obta sieves. Explain.	ained uniform sized produc	ct during milling w	ithout the use of		
	<b>c</b> )	-	ons and standards for sieve				
	<b>d</b> )		is grades of coarse powder	? Define them.			
	e)	What are the uses o	-	••			
	<b>f</b> )		nent used for solid-solid m xing equipment for semiso	_			
	g) h)	-	ctors influencing the select				
	i)	List the function of		non or emaismer.			
	<b>j</b> )		ons of perforated basket cer	ntrifugation.			
	k)		n filtration and clarification				
	l)	Enlist the types of e					
	,	Differentiate mixin					
	n)	Write mechanism for	or liquid mixing.				
		Atte	mpt any four questions f	rom Q-2 to Q-8			

Q-2

a Explain with the help of a diagram the construction and working of ball mill

b Describe the construction, working, advantages and disadvantages of fluid energy mill.

Q-3

Explain the working of a cyclone separator and its usefulness

(14)

a Explain the working of a cyclone separator and its usefulness
 b Define Size Separation and Give details about the various standards fixed by the pharmacopeia for sieves.

**Q-4** 

**a** What are the reasons for vortex formation? What are the drawbacks of vortex? Suggest solutions for the problems of vortex formation.

**(14)** 

**b** Describe the construction and working of Silverson mixer-emulsifier with the help of neat diagram.



Q-5			(14)
	a	With a neat diagram describe the construction and working of a suitable industrial filter for handling of high solid containing slurries.	
	b	Explain the mechanism of filtration. What are filter aids? Name the filter aids commonly used in pharmacy practice.	
<b>Q-6</b>			(14)
	a	Classify industrial centrifuges. Write construction and working of perforated basket centrifuges	
	b	Discuss the Mier's super-saturation theory of crystallization. What are the limitation of the Mier's theory?	
Q-7			(14)
	a	Short notes on Soxhlet Apparatus	
	b	Enlist the name of the equipment used in liquid extraction and explain any one of them in detail.	
Q-8			(14)
-	a	Write a short note on Industrial hazards.	
	b	What are the safety precaution taken for industrial hazards.	

