## C.U.SHAH UNIVERSITY Summer Examination-2018

Subject Name: Pharmaceutical Industrial Process ISubject Code: 4PS02PIP1Branch :B.PharmSemester : 2Date : 23/04/2018Time : 10:30 To 01:30Marks :70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Define the following terms:	(14)
-	a)	Impact	(1)
	b)	Attrition	(1)
	c)	Bond's law	(1)
	d)	Kick's law	(1)
	e)	Size separation	(1)
	<b>f</b> )	Diffusive mixing	(1)
	<b>g</b> )	Turbulent mixing	(1)
	h)	Clarification	(1)
	i)	Filter aids	(1)
	j)	Crystal lattice	(1)
	k)	Amorphous solids	(1)
	l)	Polymorphs	(1)
	m)	Decoction	(1)
	n)	Menstruum	(1)
Attempt	any f	our questions from Q-2 to Q-8	

Q-2			(14)
-	a	Write principle, construction, working, advantages and disadvantages of hammer mill.	(7)
	b	Explain cyclone separator with the help of suitable diagram	(7)
Q-3			(14)
	a	Describe in detail fluid energy mill with the help of suitable diagram.	(7)
	b	Write principle, construction, working, advantages and disadvantages of ribbon blender.	(7)
Q-4			(14)
-	a	Write principle, construction, working, advantages and disadvantages of sigma blade mixer.	(7)
	b	Explain silverson-mixer with the help of suitable diagram.	(7)

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Q-5			(14)
	a	Explain various factors which influence the filtration.	(7)
	b	Write a note on theories of filtration.	(7)
Q-6			(14)
	a	Explain Swenson Walker Crystallizer with the help of suitable diagram.	(7)
	b	Write a note on meta filter.	(7)
Q-7			(14)
	a	Write different types of extraction processes. Explain any one.	(7)
	b	Write a note on Mier's supersaturation theory.	(7)
Q-8			(14)
-	a	Describe the applications of crystallization.	(7)
	b	Write a note on effluent treatment plant.	(7)

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