C.U.SHAH UNIVERSITY Winter Examination-2018

Subject Name: Pharmaceutical Industrial Process ISubject Code: 4PS02PIP1Branch :B.PharmSemester : 2Date : 20/10/2018Time : 02:30 To 05:30

Marks :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)	Size reduction	(1)
	b)	Supersaturation	(1)
	c)	Rittinger's law	(1)
	d)	Convective mixing	(1)
	e)	Laminar mixing	(1)
	f)	Molecular diffusion	(1)
	g)	Crystal lattice	(1)
	h)	Habit	(1)
	i)	Nucleation	(1)
	j)	Extraction	(1)
	k)	Darcy's equation	(1)
	Ŋ	Filter aid	(1)
	m)	Filter media	(1)
	n)	Percolation	(1)
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	npt any i	four questions from Q-2 to Q-8	(1.4)
Q-2		Write principle construction working advantages and disadvantages of hall mill	(14)
	a L	Write principle, construction, working, advantages and disadvantages of ball mill.	(7)
	b	Explain colloid mill with the help of suitable diagram	(7)
03			(14)
Q-3	0	Describe the factors influencing size reduction.	
	a b	Write principle, construction, working, advantages and disadvantages of Sieve	(7) (7)
	U	shaker.	(7)
0-4			(14)
τ.	a	Write principle, construction, working, advantages and disadvantages of Double	(7)
		cone blender.	
	b	Explain Planetary mixer with the help of suitable diagram.	(7)



		(14)
a	Describe Mier's supersaturation theory in crystallization.	(7)
b	Write various applications of crystallization.	(7)
		(14)
a	Describe the various factors which influence the filtration.	(7)
b	Explain the principle of centrifugation.	(7)
		(14)
a	Explain soxhlet apparatus used in pharmacy.	(7)
b	Write a note on maceration.	(7)
		(14)
a	Explain fire and explosion hazards.	(7)
b	Write a note on chemical hazards.	(7)
	b a b a b a	 b Write various applications of crystallization. a Describe the various factors which influence the filtration. Explain the principle of centrifugation. a Explain soxhlet apparatus used in pharmacy. Write a note on maceration. a Explain fire and explosion hazards.

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