Enrollment No:	Exam Seat No:

C.U.SHAH UNIVERSITY

Winter Examination-2021

Subject Name: Pharmaceutical Engineering - Theory

Subject Code: BP304T Branch: B.Pharm

Semester: 3 Date: 16/12/2021 Time: 02:30 To 05:30 Marks: 75

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-I	Expla	in the following terms briefly:			(20)		
	a.	Equilibrium Moisture Content	b.	Applications of evaporation	` '		
	c.	Dalton's law	d	Bond's law			
	e. g.	Pressure head Advantages of bag filter	f. h.	Applications of Bernoulli's equation Black body			
	i.	Darcy's equation	j.	Applications of centrifugation			
Q-II	Write	long answers of any two:			(20)		
	a.	Discuss in detail Freeze Dryer.			(10)		
	b.	Explain principle, construction, working, advantages, disadvantages and applications of Ball mill.					
	c.	Discuss in detail Orifice meter with the help of neat labeled diagram.					
O-III)-III Write short answers of any seven:						
V 111	a.						
		r					
	b.	Write the various factors affecting the rate of evaporation.					
	c.	Describe the principle, construction, merits and demerits of Fluidized Bed Dryer.					
	d.	Write the principle, construction and working of Simple manometer.					
	e.	Write the principle, construction and working of Rotameter.					
	f.	Derive an equation for conduction of heat through a metal wall.					
	g.	Write difference between solid mixing and liquid mixing.					
	h.	Explain principle, construction and working of Meta filter.					
	i.	Write the different types of stainless steel with their composition, advantages, disadvantages and uses.					

