Time: 3 Hours

Total Marks 75

		as well below exections		1×20=20 Mai		
Q	uesti	on No, 1. Multiple choice questions	nri	inciple of variable area meter		
1.	Whi	ch of the following equipment works on the	B	Rotameter		
		Pitot tube		Orificemeter		
	C.	Venturimeter	a of	fect evaporator		
2.	. Wh	ich of the following is TRUE about Multipl				
	A.	a. It is suitable for batch operation It utilizes horizontal tube evaporator	D.	It is highly economical relative to single		
	C.	It utilizes norizontal tube evaporator		effect		
2	The	fixed plate in flat plate type heat exchanger	is	called as		
3.			В.	Pressure plate		
	0	Carrying beam Frame plate	D.	Guiding bar		
1	C.	process the entire liquid mixtur	e is	suddenly vaporized by passing the feed from		
4.	. In_	pressure zone to a low pressure zone				
d	nigh	Azeotropic distillation	B.	Flash Distillation		
	C	Simple distillation	D.	Molecular distillation		
5	The	fluid pressure exerted upon a column of li	qui	d, can be measured by an instrument called		
٥.		Pressure gauge	B.	Venturimeter		
	0	Manameter	D.	Energy meter		
6	Acc.	ording to Rittinger's Law, the energy requir	ed f	or size reduction is directly proportional to		
U.	Acci	ording to retuniger a many				
THE STATE OF		Crushing strength	B.	Crack length		
	C	Stress at atomic bond		Surface area		
7	Wha	at is the percent volume of balls filled in the	bal	I mill for it's effective operation?		
, .		30–50%	B.	<30%		
		60-70%	D.	>50%		
8. In horizontal tube evaporator steam is circulated through						
0.		Outside the evaporating tubes	В.	Condensate inlet		
		Inside the evaporating tubes	D.	Product outlet		
9		ourier's law rate of heat flow is				
		Inversely proportional to area	B.	Directly proportional to temperature drop		
	Market Comment	Constant	D.	Directly proportional to thickness of wall		
10		yleigh Distillation is also known as				
		Flash distillation	B.	Fractional distillation		
		Extractive distillation	D.	Differential distillation		
11		nich one is NOT application of centrifugation	on			
		To reduce particle size	B.	Evaluation of suspensions and emulsion.		
	C	Biopharmaceutical analysis of drugs.	D.	Determination of molecular weight of		
				collides.		
12	WI	hich of the following metal is the best resist	tant	to corrosion in acid environment?		
-		Tin	B.	Stainless steels		
		Nickel and its alloys	D.	Steel		

Page 1 of 2

70148

Paper / Subject Code: 65214 / Pharmaceutical Engineering								
13. W	13. Which of the following forces aids the tumbling action for promoting inter-particle movement?							
	. Surface force B.	Ele	ctrostatic force					
	Licentistane lores		ivitational force					
14. V	$=\pi\Delta Pr4/8\eta L$ this equation of filtration belongs t	0_						
	Carman	В.	Darcy					
C	Poiseuilli	D.	Kozeny					
15. "E	. "Boiling bed" term is connected with one of the following dryer?							
Α	Drum dryer	B.	Freeze dryer					
C	Spray dryer	D.	Fluidized bed dryer					
16. V	hy particles having size 5 micrometre or less d	o no	t sepearted by centrifuga	tion				
	sediment under gravity	В.	particles sediment unde	r gravity works				
C	sediment under gravitational force	D.	do not sediment under g	gravity				
17. w	17. when sulphar combines with polymeric chain of rubber by crosslinking is known as							
A	Vulcanization	В.	Densification					
C.	Crystallization	D.	Purification					
18. In	meta filter the rings dimensions of about	n	nm external diameter.					
A	15	B.	20					
C.	22	D.	12					
19. W	hich type of mixer has a fixed trough?							
A	Barrel mixer	B.	Ribbon mixer					
C.	Double cone blender	D.	Zigzag mixer					
20. In	a spray dryer, the particle size is closely control	lled	by					
Α.	Atomizer	В.	Drying chamber					
C.	Fluid bed	D.	Cyclone separator					
Question No. 2: Answer any TWO of the following 10×2= 20Marks								
Quest	for ito. 2. Answer any <u>it we</u> or the following	•		20114111				
A. Explain factors influencing selection material for construction?								
	Give a detail account of the dryer which work							
C.	What are the different mechanisms of size ser	arat	ion? Explain in detail Ba	ll mill.				
0	CHANN CALCULA			5v7-25Mauls				
Quest	ion No. 3: Answer any <u>SEVEN</u> of the following	ng		5×7= 35Marks				
٨	Differentiate between Orificemeter and Ventu	rim	tor					
	 A. Differentiate between Orificemeter and Venturimeter B. Explain in brief the principle, construction and working of climbing film evaporator. C. Elaborate different mechanisms of heat transfer processes D. Dscribe n detail fractionating columns 							
E.								
F.								
G. With neat labeled diagram explain cartidge filter								
H. Eloborate on principles of Centrifugation I. Explain in brief localized corrosion with example								
1.	Explain in other recailed correspond with exam							

Page 2 of 2