	(3 Hours	s) S	Total Marks: 75
Question No, 1. Multiple choice quest	ion		1×20=20 Mark
1. Pitot tube is used to measure of			
A. Velocity	B.	Speed	
C. Flow		Density	
2. Contraction point in orifice meter is k		Q, A	93. 9A
A. Throat of venturi		Vena contracta	
C. Through column	D.	Coeffcient of contr	action
3. The ratio of initial particle size to fina	al particle	size is defined as	T. S.
A. Reduction ratio	Z) '	Kick's ratio	3
C. Rittinger's ratio		Bond's ratio	
4. Which of the quality control parameter			on of potent materia
in formulation of dosage forms?	26 T		, m
A. Content uniformity	В.	Friability	
C. Hardness		strength	
5. Rate of evaporation is:	8	Buengui	
A. Directly proportional to	В	Independent of terr	perature of liquid
temperature of liquid			iperature of inquie
C. Inversely proportional to	S D	Directly proportion	al to humidity of
temperature of liquid		surrounding air	iar to nannaity of
6. Which of the following factors do not	t affect the	() =	2
A. Temperature of liquid		Humidity of surrou	
C. Depth of liquid		Surface of liquid	munig an
7. Stefan Boltzmann law is applicable for			
A. Conduction		Convection	
C. Radiation		Conduction & Rad	iation combined
8. In shell & tube exchanger the fluid flo			as as
A. Tube fluid C. Current fluid		Concentric fluid Shell fluid	
9. In Vacuum Distillation, Substance bo			
A. High Pressure		Temperature below	its boiling point
C. Exact temperature at boiling		Temperature slight	
point of liquid	26T	point	,
10. One of the theories is NOT applicab			
A. Graham's law of diffusion		Law of conservation	on of energy
C. Law of conservation of matter		Raoult's Law	
11. Which product is NOT dried by spra A. Serum	^. T	Fruit Juice	
C. Lactose		Bacterial & viral co	ılturoc
12. Which is most essential factor for ef			anarcs
A. Height		Weight	
C. Humidity		Pressure	
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13. V	Which one of the following rate is observed	in mi	ixing of solids?	
	A. First order law		Zero order law	
	C. Second order law	D.	. Mixed order law	
14. V	Which type of mixture is easily formed?			
	A. Positive	B.	. Negative	
(C. Neutral	D.	. Ampholytic	
15. W	hich of the following is NOT a common fil	tratio	on method?	
	. Gravity filtration		Vacuum filtration	
C.	Centrifugation	D.	Distillation	
	hat is the term for the solid material collect	ed on	n the filter medium during filtration?	
	. Filtrate		. Precipitate	
C.	Residue or cake	D.	. Supernatant	
17. Ce	entrifugal method is used for one of the following	owing	g processes:	
A.	. Mixing	В.	Purification	
C.	Separation	D.	. Sizing	
18. Ce	entrifugation is based on which law?			
	. Patrick's Law	B .	. McLaren's law	
C.	Stoke's Law	D.	. Stain's Law	
19. Co	orrosion of metals is fairly high in one of th	e foll	lowing medium:	
	. Acidic		Alkaline	
C.	Neutral	D.	. Non-Aqueous	
20. M	onel is an example for alloy			
	. Aluminium	B.	. Nickel	
C.	Ferrous	D.	. Copper	
,				
_	S N A S S S S S N A N A N A N A N A N A	3	5 40 0000	
	tion No. 2: Answer any <u>TWO</u> of the follo			K.
	. What is corrosion? Explain different theo	ories c	of corrosion.	
	. Discuss the process of freeze dryer	. 6	8, 8, 12,	_
C C	. Enlist different mechanisms of the size re			
	equipment for each mechanism. Describe	the c	construction, and working of an Air	
	Separator.		The Contract of the Contract o	
Ques	tion No. 3: Answer any <u>SEVEN</u> of the fol	llowi	ng $5 \times 7 = 35$ Mark	S
\bigcirc A	. Classify flow meters. Explain in short rot	amete	ter.	
B	. Explain the principle, construction and w	orkin	ng of horizontal tube evaporator	
C	. Elaborate on different mechanisms of hea	at tran	nsfer processes	
D	. Explain the principle, construction and w	orkin	ng of centrifugal molecular distillation	n
É	. Enlist equipment's used for mixing of sol	lids a	and explain any one	
F.	Explain construction and working, advan-	tages	and disadvantages of ribbon blade	
	mixer S	0	· ·	
G	. Add an account on filter media			
Н	. Define centrifugation and give its princip	le		
J.	Explain Aluminum and its alloys			
	6. 4. V. S.			
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	4 5 4 6			