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BP 304 T Pharmaceutical Engineering

P. Pages: 3

Time: Three Hours

Instructions to Candidates:

1. Choose the proper alternative of the following.

- Hammer mill works on the principle of
 - i) Impact

- \$2/2018 11:30:32 AM ii) Compression

- b)
- ii) Impact iii) Compression
 iii) Impact and attrition iv) Attrition on Attritoon on Attrition on Attritoon on Attrition on Attrition on Attrition on Attrition on Attrition o

- - Simple

ii) Azeotropic

iii) Flash

- iv) Fractional
- Mean free path is associated with ----- distillation.
 - Aze otropic

ii) Steam

iii) Macuum

- iv) Molecular
- Which of the following is a Pneumatic dryer?
 - Vacuum dryer
- ii) Freeze dryer
- iii) Drum dryer
- iv) Spray dryer

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g)	V	apor pressure at triple poi	at of wat	tor in			
3/	i)	45.8 mm Hg	ii)	1.22 mm Hg			
) 4.58 mm Hg	iv)	458 mm Hg			
		,	.,	400 11111 119			
h)	W	Which is the disadvantage of sieve shaker method?					
	i)	Attrition		Capacity limited			
	iii)	Expensive equipment		Tedious method			
:\							
i)	:\	is used for the filtration	of pare	ntral/ophthalmic solution.			
	i) iii)	Filter leaf Cartridge filter	ii)	Meta filter			
	"")	Cartriage litter	iv)	Drum filter			
j)	Th	The device used to measure the pressure difference is known as					
	i)	Psychrometer	ii)	Manometer	Mas		
	iii)		iv)	Thermometer	Tent		
					OCUL		
k)	W	Which one of the following is known as 'Lyophilizer'?					
	1)	FBD	ii)	Freeze dryer			
	iii)	Spray Dryer	iv)	Vacuum dryer			
I)	۱۸/۱	nich is the principle differe	!	01:33			
1)	cei	Which is the principle difference in the properties of material that influences centrifugation?					
	i)	Density	ii)	Interfecial terrain			
	iii)	Particle shape	iv)	Viscosity Viscosity			
		2000 A	,	Viscosity 122			
m)	Ce	Centrilugation is useful in one of the following type of soft dispersion					
	1)	Coarse dispersion	ii)	Colloidal dispersion			
	iii)	Molecular dispersion	iv)	Multisize dispersion			
		Q Q #839V (25 %)		409			
n)	Wh	nich one of these is the val	ue of gr	र्रा Witational constant in SI unit (। 0.9807	m/s^2)		
	1)	0.09807	ii ha	0.9807	(m-		
	111)	9.807	(anak)	98.07			
o)	Wh	ich is not a mechanism of	alle liquid m	sivin = 2			
-,	i)	Bulk transport	ii)	Laminar miving			
	iii)	Shear mixing	iv)	Laminar mixing Turbulent mixing.			
	,	Alke	,	rarbalent mixing.			
p)	Mix	Which is not a mechanism of liquid mixing? i) Bulk transport ii) Laminar mixing iii) Shear mixing iv) Turbulent mixing. Mixing of ingredients is a problem when					
	'/	Amount of aprive constan	nt is low				
	ii)	dose of drag is high					
	iii)	materials are non - cohe					
	iv)	shape of components are	similar				
a)	Wat	Water attack test is performed on glass in order to find the limits of ii) Alkali iv) Conductivity iv) Metal ions Which glass container is used for storage of light sensitive material? Air tight					
4)	i) . t	Acid	on gias	ss in order to find the limits of			
	IUALL	Conductivity	ii) iv)	Alkali Metal ions			
. P	V.						
LA PA	Whi	ch glass container is used	for stor	age of light sensitive material?	(Page		
le			ii)	Air tight			
	iii)	Unit dose	iv)	Well closed			

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s)	Which one of the following is associated with flow of current? i) Cavitation corrosion ii) Galvanic corrosion iii) Impingement corrosion iv) All of these						
t)	The ability of metal surface to with stand repeated cycles of corrosion is known						
	i) Cavitation corrosion ii) Corrosion fatigue iii) Erosion iv) Corrosion cracking	1.4					
Attempt any seven of the following.							
a)	a) Write a note on cyclone separator.						
b)	Give the principle, construction and working of Fluid energy mill.						
c)	Give the principle, construction and working of Freeze dryer.						
d)	iii) Erosion iv) Corrosion cracking empt any seven of the following. Write a note on cyclone separator. Give the principle, construction and working of Fluid energy mill. Give the principle, construction and working of Freeze dryer. Explain in detail the Reynold's Experiment.						
e)	Explain in detail the Reynold's Experiment. Write down the Fourier's law and give its derivation. Explain the four mechanism of liquid – liquid mixing. Give the principle, construction and working of Roterly drum filter. Write a note on Fluidized bed dryer. Explain the principle, working and use of reference basket centrifuge.						
f)	Explain the four mechanism of liquid – liquid mixing						
g)	Give the principle, construction and working of Rotally drum filter						
h)	Write a note on Eluidized had driver						
	Explain the principle, working and use of miliformated backet contribute						
i) Explain the principle, working and use of reference basket centrifuge. Attempt any two of the following.							
Attempt any two of the following.							
a)	Explain fractional distillation metrod in detail. Add a note on boiling point composition diagram of miscible liquid.						
b)	Classify evaporators. Explain the construction and working of multiple tube evaporator. Add a note on economy of multiple effect evaporator.						
c)	Write a note on Bertsbulli's experiment with its derivation and describe working of Orifice Meter. ***********************************						

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