

W-18

BP 302 T Physical Pharmaceutics - I

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		ages e : T		Hou	urs		Max. Marks اد	by #3.A
U		Inst	1. 2. 3. 4. 5.	Do r Grap pape Stud All d Figu	to Candidates: not write anything on quest ph or diagram should be dr er or black HB pencil. dents should note, no supp questions are compulsory. Ire to right indicate full mar w well labelled diagram wh	awn with lement ks.	per except Seat No. th the black ink pen being used for extriting will be provided.	,
	1.	a)	Cho	ose	the correct answer of follow	wing.	01801.	1x10 =10
			1)	a) c)	ich of the following is ideal PV = nRT D = M/V	b) d)	$Z = PV/RT_3/3^3$ $PV = K_0/03$	
			2)	Cap a) c)	billary rise method is used to Dielectric constant Surface tension	to deter b) d)	mine com Partion coefficient Ze a potential	
			3)	Abi a) c)	lity of substance to rotate p Refractive index Dipole moment	lane and	Sarized light is known as. Optical activity Dissociation constant	
0			4)	The a) c)	e pH of pharmaceutical baff Michaelis Menten equatio Noyes Whitney equation	fers car n b) d)	pH portion theory	
			5)	a)	factant are recognized by posterior of the contract of the con	b)	ce of Only lipophilic group oup d) None of above	
			6)	kno	e phenor lenon in which sul own as Aporphism Nolymorphism	bstance b) d)	e exist in more than one crystalline form is Crystallinity Anisotropy	
		ان	7)	HE	B scale is given by Du Noyes Faraday	b) d)	Griffin Avogadro	
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		8)	Process of conversion of solids directly into gases is known as a) Sublimation b) Evaporation c) Fusion d) condensation
		9)	One of the following is used to create pressure within aerosol container a) Surfactant b) Solubilizing agent c) Stabilizer d) Propellant
		10)	Adsorption is a a) Bulk phenomenon b) Surface phenomenon c) Critical phenomenon d) All of above
	b)	Ans	c) Critical phenomenon d) All of above swer following question State Raoult's law. Define sublimation with suitable example. What is refractive index? Write its formula. Define surface free energy. Write its equation.
		1)	State Raoult's law.
		2)	Define sublimation with suitable example.
		3)	What is refractive index? Write its formula.
		4)	Define surface free energy. Write its equation.
		5)	Classify complexes in detail.
2.		Solv	ve any two. 2x10
		1)	Define surface free energy. Write its equation. Classify complexes in detail. ve any two. What are solvents, Classify them and explain various solute-solvent interaction in detail. 2x10 =20
		2)	Define Aerosols, Write their pharmaceutical applications and explain principle and mechanism of aerosol action.
		3)	Define polymorphism, Classify polymorphism and write pharmaceutical applications of polymorphism.
3.		Sol	ve any seven. Explain various factors affectiate solubility of gases in liquids. 7x5 =35
		1)	Explain various factors affecting solubility of gases in liquids.
		2)	Define sublimation, Explain principles of sublimation in details.
		3)	What is HLB. Explain Wrious methods to determine HLB of surfactant.
		4)	Define optical rotation, Explain measurement method for optical rotation.
		5)	Explain concept of wetting and detergency with their applications.
		6)	What is protein binding, Explain kinetics of it.
		7)	Explain buffers in pharmaceutical and biological systems.
		8)	Expain distribution law write its applications.
		9)	Discuss various shapes and types of crystals.
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