Physical Pharmaceutics I_BP 302 T

Da Se Su IN 1.7	Pharmacy Second Internal Examination 2020-2021 te: 14-08-2020 mester: 3 bject: Physical Pharmaceutics I STRUCTIONS: All questions are Compulsory Each question carries 1 mark Required
•	Email address *
	Enrollment No: *
١.	Full Name of the Student *
١.	Span 40 is dissolved in paraffin oil. At slightly above the critical micelle concentration, the arrangement of span molecules is * Mark only one oval.
	Head face the center of the micelle
	laminar arrangement
	tails face the air at the interface
	tail face the center of the micelle

) . .	assume the shape of *
	Mark only one oval.
l	Cylindrical
	Layered
	Rod-shaped
	Spherical
j.	3. Polysorbate 80(Tween 80) is a surfactant of type *
	Mark only one oval.
	amphi-ionic
	anionic
	cationic
	non-ionic
	•
7.	4. Micelles are observed in water, when the added surfactant is within a particular concentration range the concentration range should be *
	Mark only one oval.
	equal to and less than cmc
	equal to and more than cmc
	equal to cmc
	more than cmc

3.		9. Which one of the following substances decreases the surface tension of water
	Mark only one oval.	*
	above the surface of water	Mark only one oval.
	at water air interface	Lecithin
	in the bulk of the water	Methanol
	uniform in bulk and interface	Sodium chloride
		Sucrose
) .	6.Which is an example of cationic surfactant *	
	Mark only one oval.	10. for the wetting of a solid by liquids, the contact angle should have a value
	Benzalkonium chloride	nearly *
	Polysorbate 80	Mark only one oval.
	Sodium lauryl sulphate	0
	sorbiton monooleate	90
		180
		270
0.	7. which one of the following emulsifier is used to stabilize the emulsion of water	
	in oil type *	
	Mark only one oval.	11. When cetyl alcohol is added to water it appears on the water surface as *
	sodium lauryl sulphate	Mark only one oval.
	Span 20	Duplex film
	Tragacanth	insoluble monolayer
	Tween 80	Lens
		Soluble monolayer
1	8. The HLB range for lipophilic surfactant is *	
••		
	Mark only one oval.	
	2 to 9	
	9 to 16	
	16 to 20	

above 20

15.	12. Surface tension is a *	19. 16. When the distilled water is in contact with a clean glass capillary, the $\cos \theta$ is
	Mark only one oval.	*
	capacity factor	Mark only one oval.
	extensive property	180
	intensive property	90
	tolerance factor	one
		zero
16.	12 Solid/solid interference and important to a	
10.		20. 17. What are the units of surface tension in SI units *
	Mark only one oval.	
	emulsions	Mark only one oval.
	pastes	debye
	suspensions	dy/cm
	tablets	mN/m Pa.s
		Fd.S
· 17.	14. Surface tension is defined as change in the surface free energy per unit	
	change in *	21. 18. The higher the cohesive forces the greater the physical property. Identify.*
	Mark only one oval.	Mark only one oval.
	area	Dipole moment
	density	Optical rotation
	length	Refractive index
	volume	Surface tension
18.	15. Liquids exhibit high surface tension due to *	22. 19. The rise of liquid in capillary tube does NOT depend on *
	. Mark only one oval.	Mark only one oval.
	adhesive forces, Strong	
1 #	adhesive forces, weak	Atmospheric pressure
	cohesive forces, Strong	Density of liquid Radius of the capillary
	Cohesive forces, weak	
	Concessor forces, weak	() temperature
	Ostrostre toroco, weak	temperature

23.	20. Rain drops are spherical, because of the following reasons *	26.	The state of the s
	Mark only one oval.		cations *
	air resistance		Mark only one oval.
	gravity		increased
	Olow viscosity of water	r en en en '	decreased
	surface tension		unaffected
			none of the above
24.	21. Polyvinyl pyrrolidine (PVP) is water soluble polymer and forms a water soluble		
	complex with *	27.	24 In an agreed system propoliont is equilable in an after 6.11.
	Mark only one oval.	27.	24.In an aerosol system propellant is available in on of the following forms at ambient conditions *
	lodine		Mark only one oval.
	Cisplatin	,	Gas
	Salicylic acid		Gas and liquid
	lead		Gas, Liquid, and Solid
			Liquid
25.	22. intermolecular forces involved in the formation of complexes are *		
	Mark only one oval.	28.	25. Description of outer appearance of the crystal is *
	Covalent bonds		Mark only one oval.
	vader walls forces of dispersion		Crystal habbit
	On-dipole		law of crystallography
	all the above		crystal system
			interfacial angle

29.	26. Amount of water vapour present in the moist air per unit mass of dry air in a given volume is *	33.	30.Glass is an example for *
	Mark only one oval.		Mark only one oval.
	Humidity		Crystalline solid
	isomorphism		liquid crystal
	Fusion Temp		non crystalline solid
	Eutectic Mixture		super cooled liquids
30.	27. Inclusion complex of beta cyclodextrin with nitroglycerin makes it *	34.	31. The existence of a molecule in more than one solid modification is known as
	Mark only one oval.		Mark only one oval.
	More soluble		Allotropy
	Improves stability		amorphism
	Explosion proof		isomorphism
	Antibacterial		polymorphism
31.	28. Vit A and D are stabilized chemically by complexation with *	35.	32. Which of the following is a molecular solid *
	Mark only one oval.		Mark only one oval.
	Beta cyclodextrins		Dimond
	caffeine		◯ lce
	ions		Magnesium oxide
	iron		Sodium hydroxide
32.	29. A solid having undefined shape is known as *	36.	33. The characteristic feature so a solid are *
	Mark only one oval.		Mark only one oval.
	amorphous		definite shape
	Anisotrophic		definite shape and size
	Crystalline		definite shape, size and rigidity
•	☐ Isomorphic		definite shape, size, rigidity and fluidity

34. A sharp melting point of a crystalline solid is due to *
Mark only one oval.
Definite arrangement of constituent particles in different direction Irregular arrangement of constituent particles
low void volume in the crystal lattice
same arrangement of constituent particle in all directions
35. Which component of aerosol system is responsible for expelling the contents *
Mark only one oval.
Actuator Drug product Propellant valve

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