Lesson: 10

STD: XII	ONE M	ARK TEST - 9	Lesson: 10
Marks: 30 / Time: 45 Min		HEMISTRY	
Choose the correct answer	r.		
1. Which among the follow	ing is an adsorbent?		
a) N_2	b) SO ₂	c) Ni d) l	NH ₃
Adsorption is always acc			
a) Increase in entropy		b) Increase in free energ	y .
c) Decrease in free er	ergy	di Ma abanca in automa	
below (1) (NaC1)=32 (11)	((BaC12)=0.69 (III) (MgS	e electrolytes used for the O ₄)=0.22 The correct orde	coagulation of As ₂ S ₁ are given of their coagulating power is
a) 111 > 11 > 1	b) t > jt > jjj	(b) 11 < 11 < 1 (a)	1 >
4. The critical temperature	of the gas which is readily	adsorbed is	
a) lower	b) higher	c) zero d)	none of the above
5. For Freundlich isotherm	a graph of $\log \frac{x}{z}$ is plotted	l against log n. The slope	of the line and its y – axis
intercept respectively co	rresponds to	Barrier 10g by 1111 grap	
	b) $\log \frac{1}{n}$, k	. 1/ / /	$\log 1/n$, $\log k$
			\log^2/n , \log^2
6. Sugar prepared from mo	-		d) Activated charcoal
a) Silica gel	b) Permutit	c) Animal Charcoal	d) Activated charcoar
7. Intermediate compound			alysis d) Negative catalysis
	alysis b) Heterogeneous		alysis d) Negative catalysis
8. Which of the following	is incorrect for physisorpt	ion?	The same of the sa
a) reversible		b) increases with incr	ease in temperature
c) low heat of adsorp		d) increases with incr	ease in surface area
9. The catalytic activity of		a promoter by	
	nber of active centres	(a)	
	imber of active centres		
c) Blocking the num			
d) Desorbing the act	ive centres		
10. Which one of the follo	wing characteristics are a	ssociated with adsorption	1?
a) ΔG and ΔH are no	egative but ΔS is positive	b) ΔG and ΔS are ne	gative but ΔH is positive
c) ΔG is negative bu	t ΔH and ΔS are positive	d) ΔG , ΔH and ΔS a	ll are negative
11. Which of the following	g is incorrect		
a) Enzymes can be i	nhibited (poisoned)		
b) Calalytic activity	of enzymes is decreased	by coenzymes	
	is highly specific in natu	a Table 1 and 1 an	
		ies with the pH of the sys	stem
12. In an electrical field, the	ne particles of a colloidal	system move towards of	athode. The coagulation of the sam
sol is studied using Ka	SO ₄ (i) Na ₂ PO ₄ (ii) K ₄	Fe(CN) (iii) and NaCl	(iv) Their coagulating power shou
be	504 (1), 1143 1 04 (11), 114		(iv) Then coagulating power shou
	1.) 111.		
a) II > I>IV > III	p) III > II > I > IV	c) $I > II > III > IV$	d) none of these
13. Fog is colloidal solution		process of adjudy and the	
a) solid in gas	b) gas in gas	c) liquid in gas	d) gas in liquid
14. In hydrosols the disper	sion medium is		
a) Benzene	b) Alcohol	c) Water	d) Ether
15. Adsorption of a gas on	solid metal surface is s		
a) ΔH increases	b) ΔS increases	c) ΔG increases	d) ΔS decreases
	0, 20 1110104305	o, ao mercases	a) Ab decicases
		The state of the s	

14 3 3 1 2 3 3 4 4 5 5
16. Statement: To stop bleeding from an injury, ferrile chloride can be applied. Which comment about the statement is
the strang coaphial blood which is a hegatively charged sor
c) It is not true: ferric chloride is forme and gets into the blood stream
d) It is true, coagulation takes place because of formation of negatively charged sol with Cl.
17. Collodion is a 4% solution of which one of the following compounds in alcohol – ether mixture?
b) Collision 1 to the contract of the contract
a) Nitroglycerme b) Certaiose acetate c) Glycoldinitrate d) Nitrocellulose 18. In butter the dispersed phase and the dispersion medium are respectively
a) Solid, gas b) Elquid, solid c) Solid, liquid d) Gas, solid
19. Assertion: Coagulation power of Al ³⁺ is more than Na ⁺ .
Reason: greater the valency of the flocculating ion added, greater is its power to cause precipitation a) if both assertion and reason are true and reason is the
a) if both assertion and reason are true and reason is the correct explanation of assertion b) if both assertion and reason are true but reason is the correct explanation of assertion
c) assertion is true but reason is false
d) both assertion and reason are folio
20. If x is the amount of adsorbate and m is the
20. If x is the amount of adsorbate and m is the amount of adsorbent, which of the following relations is not related to adsorption process?
a) $^{\lambda}/_{m} = f(P)$ at constant T
c) $P = f(T)$ at constant X/m b) $X/m = f(T)$ at constant P
21. Assume surprise soil is prepared $As_2O_3 + 3H_2S \rightarrow As_2S_2 + 3H_2O$. This method is 1
a) Hydrolysis b) Double decomposition c) Oxidation d) Reduction
22. Hall Cleam is
a) gel b) emulsion c) solid sol d) sol
23. The movement of dispersion medium under the influence of dispersion d) sol
23. The movement of dispersion medium under the influence of electric current is known as 24. The movement of dispersion medium under the influence of electric current is known as 24. The movement of dispersion medium under the influence of electric current is known as
24. The most effective electrolyte for the coagulation of As ₂ S ₃ Sol is a) NaCl b) Electrophoresis c) Electrodialysis d) Ultra filteration
a) NaCl b) Ba(NO ₃) ₂ c) K ₃ [Fe(CN) ₄]
25. Blue colour of the sky in nature is due to C) K ₃ [Fe(CN) ₆] d) Al ₂ (SO ₄) ₃
and the factor of the form
a) Browniart movement b) Tyndall effect c) Both (a) and (b) d) None of the above
a) Cataphorasis
a) Cataphoresis b) Electrophoresis c) Coagulation d) Tyndall effect
The force of attraction exist between adsorbent and adsorbers in 1
D) I linolo dinal-
d) All the shared
28. Which one of the is not a surfactant?
a) $CH_3 - (CH_2)_{15} - \stackrel{+}{N} - (CH_3)_2 CH_2 Br$ b) $CH_3 - (CH_2)_{15} - NH_2$
c) $CH_3 - (CH_2)_{16} - CH_2 OSO_2^- Na^+$ 29. On which of the following properties depend on the following properties
of the following properties does the coagulating nower of an ion domes to
a) Both magnitude and sign of the charge on the ion b) Size of the ion along
c) the magnitude of the charge on the jon alone
30. Which one of the following is correctly matched?

a) Emulsion	i -	Smoke
b) Gel	7.2	Butter
c) foam	<u>.</u>	Mist
d) whipped cream		sol

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	One Moork Text-9 R. PRAKASH, M. Sc., B. Ed., D. R. G. Asst. in Chemistry R. G. Asst. in Chemistry
٨	C) N.C Water Krishnagiri-Dist.
a -	(i) Dergon 1
	a) iii > ii > ii > ii > ii (or negaterrely charged Soli)
4.	d) none of the above 17. d) Nitroullulare
S	(c) h, logk (18. c) Solid, liquid (19. a) If both auxilian and
Ь.	c) Antinal charcoal preason are true and season is the correct
Ŧ.	a) Homogeneous catalyers explanation.
8	b) Envierres with Envierre 30. d) 2/m = PT
	en temperation. 21. b) double decomposition;
9	a) Thousing the number 22. b) emulsion
	of arthur centres.
10.	d) Δ by, Δ H and Δ s all one 25. b) Tyndall effect. negative 26. d) Tyndall effect.
	regaline ab. d) Tyndall effect
11.	b) calabytee artinity of above. en 5ymes is decreated by 27. d) All the above. 27. b) CH3 - (CH2)15 - NH2
	Countymer is decreated by as b) CH3 - (CH2)15 - NH2
	Coentyna
12	b) III > II > II > II > II > II > II > I
	C) lequied en gos. Kindly Send Me Your Study Materials To Us Email ID: padasalai.net@gmail.com