Class: 12

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SECOND REVISION EXAMINATION - 2025

Time	e Allowed: 3.00 Hours] CHEMIST			arks: 70
	e: (i) Answer all the questions.		t com	
Note	e: (i) Answer all the questions.			15x1=15
	(ii) Choose the most suitable answer fr	ron	n the given four alternatives ar	nd write
	the option code and the correspond	ing	j answer.	
1.	Extraction of gold and silvar involves leaching w	/ith	cyanide ion. Silver is later recove	red by
	a) Distillation	b)	Zone refining	
	c) Displacement with zinc	d)	liquation	Line
2.	In diborane the number of electrons that accour	nts	for banana bond	
	a) Slx b) two	c)	four d) three	
3.	The molarity of given orthophosphoric acid solu	ıtior	n is 2M, its normality is	
101	(a) 6N (b) 4N	(c)	2N (d) none of the	ese
4.	The catalytic behaviour of transition metals and	I the	eir compounds is ascribed mainly	due to
	a) their magnetic behaviour		b) their unfilled 'd' orbitals	
	c) their ability to adopt variable oxidation state	s	d) their chemical reactivity	
5.	The sum of primary valence and secondary va	len	nce of the metal M in the complex	[M(en)
	(ox)] cl is			
	a) 3 b) 6	c)	-3 d) 9	
6.	Assertion: Due to Frenkel defect, density of	f th	e crystalline solid decrease	
	Reason : In Frenkel defect cation and anic	on l	eaves the crystal	
	a) Both assertion and reason are true but rea	isor	n is the correct explanation of asse	ertion.
	b) Both assertion and reason are true but rea	sor	n is not the correct explantion of a	ssertion.
2	c) Assertion is true but reason is false	d) .	Both assertion and reason are fa	alse.
7.	The rate constant of a reaction is 5.8x10 ⁻² s ⁻¹ . T	he	order of the reaction is	
	a) First order b) Zero order	c)	Second order d) Third order	
8.	How many Faradays of electricity are required to MnO₄ → Mn²+	for	the following reaction of occur	
irte.	a) 5F b) 3F	c)	1F 'd) 7F	
9.	The P ^H of 10 ⁻⁵ M KOH solution will be	in the		
× .	a) 9 b) 5 km	c)	19 d) none of the	ese
10.	Hair cream is			
	a) Gel b) emulsion	c)	Solid sol d) sol	1
11.	Which of the following compound can be used			?
	HE - 이렇게 되어도 있다. 보고 있어요. 그렇게 보고 있는 이 집에 가장 모든 바람이 되었습니다. 그리고 있는 것이 없는 것이 없는 것이 없었습니다. 그 그 없어요.		Neopentyl alcohol d) Ethane 1,2	
12.	The formation of cyanohydrin from autone is ar			
	성 : - 경기에 가, :::::::::::::::::::::::::::::::::::		electrophilic substitution	
	그 하는 네트라마리를 하고 하셨다. 그 그리고 그리는 그 그리고 하는 것이 되었다.	d)		· W
13.	The product formed by the reaction, an aldehyo	•		
•	a) Carboxylic acid b) Aromatic acid			
14.	Vitamin B ₂ is also known as	-,		197
	[19] [18] [26] [26] [26] [27] [27] [28] [28] [28] [28] [28] [28] [28] [28	c)	Nicotamide d) Pyrodoxine	
		9	thousando uj ryrodoxine	

15	. Te	ryle	ne is an example of	The same with					
				Polythene	c) Polyester	d) Polysaccharide			
			3508-716	the same at the same of the	ART - II	() yi			
II.	A	nsw	er any six question	ns. Question No	. 24 is compulso	ry. 6x2=			
16	. W	hat i	is meany by cement	ation?					
17.	Co	ompl	lete the reaction. P	+ NaOH + H ₋ O	\longrightarrow				
18.	W	What are interstitial compounds?							
19.									
20.	Write down the overall cell reaction of lead storage battery.								
21.	What happens when glycol is distilled with cone H ₂ SO ₄ ?								
22.	. How is acetone converted into pinnacol?								
23.	Ho	w is	Orlon(PAN) prepare	ed?					
24.	Ca	lcula	ate the number of a	toms present per	unit cell in FCC2	Property Value			
					ART - III				
111	An	ISWE	er any six question						
25.	Ex	plair	zone refining proce	ess with an exam	inle	6x3=			
26.	Ex	plair	n the structure of ph	osphine	The street of the state of				
27.	Ca	lcula	ate the number of unr	paired electrons in	Mn2+ and calculate the	ne spin only magnetic momer			
28.	Wh	nat is	s metal deficiency d	efect? Give an ex	rample	le spiri only magnetic momen			
29.	What is metal deficiency defect? Give an example. Write the expression for the solubility product of Ag ₂ CrO ₄								
30.	How will you convert glycerol into acrolein?								
31.									
32.			n mustard oil reactio		period of the sold	ordala Enorgan			
33.					time required for 99	9.9% completion is nearly to			
	tim	es t	he time required for	half completion of	of the reaction	on acrosto field			
	2 h 4,		a neigrapys ibs labs		ART - IV	in retrieve the			
IV.	An	swe	er all the questions			m 5x5=2			
34.	(a)	i)	Explain gravity se	paration process		3A3-2			
			Write the uses of		(OR)	i van sei			
	(b)			The state of the s					
		ii)			s bahaviour of nitrog	en			
35.	(a)	De	escribe the preparat						
	(b)					plitting of 'd' orbitals.			
		(ii)	Classify the follow	ing ligands based	d on the number of	donor atoms			
	I.e.		a) NH, b)						
36.	(a)	Ca				are centered cubic crystal			
				(0		ne centered cubic crystal			
	(b)	De	rive Henderson-Has						
37.	(a)	(i)	Define equivalent	근거, 건 [일본 시스트 - 14 분조원 - 15 표	마시크 본 경기 위계를 다				
			Write a note on De		Onsagar equation	(OP)			
	(b)	De	scribe adsorption th	eory of catalysis	onsagai equation.	(OR)			
38.	(a)	(i)	Explain phthalein re						
	'~ /	(ii)	Give the test for ca		un (OB)	ta any la tangell			
	(b)	i)	Explain Sandmeye		up. (OR)				
	(5)	THE STATE OF THE S			.	more was deep to find by the			
		(4(4))	Write the structura	i iorniula di Aspir	ul.	ed to a state of the state of the			