Class:12

KALLAKURICHI DISTRICT ONE MARK EXAMINATION-2023

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[Max. Marks: 100

CHEMISTRY

1.	The metal oxide which cannot	•	on is		
	a) PbO	b) Al2O3	c) ZnO		d) FeO
2.	Electrochemical process is use				
_	a) Iron	b) Lead	c) Sodium		d) silver
3.	Wolframite ore is separated from				
	a) Smelting	b) Calcination c) Roas	_	lectromagneti	-
4.	Extraction of gold and silver in	_		_	
_	a) Distillation	b) Zone refining	c) Displacemen	t with zinc	d) liquation
5.	Which of the following plot give		-) ACOM-1/E		4) AC011/- TO
6	a) ΔS Vs T	b) Δ G ⁰ Vs T	c) ΔG ⁰ Vs 1/T		d) ΔG ⁰ Vs T2
6.	In Hall Herold's Process		a) Common mode		d) Zindrada
7.	a) Carbon Blocks Concentration of Haematite is	b) Hydrogen	c) Copper rods		d) Zinc rods
/.	a) leaching	b) magnetic separation	c) froth flotatio	n	d) hydraulic washing
8.	In diborane, the number of ele		*		d) hydraulic washing
0.	a) six	b) two	c) four		d) three
9.	Carbon atoms in fullerene with	*	c) loui		
-	a) sp ³ hybridised	b) sp hybridized	c) sp ² hybridise	ed	
	d) partially sp ² and partially sp		c) of injertain		
10.	The geometry at which carbon	_	to each other is		
	a) Tetrahedral	b) hexagonal	c) Octahedral		d) none of these
11.	The compound that is used in			ntrol rods is	,
	a) Metal borides	b) metal oxides	c) Metal carbo		d) metal carbide
12.	The stability of +1 oxidation s	tate increases in the sequence	e		
	a)Al < Ga < In < Tl	b) Tl < In < Ga < Al	c) In < Tl < Ga	<al< td=""><td>d) Ga< In < Al < Tl</td></al<>	d) Ga< In < Al < Tl
13.	SiO ₄ ⁴ ion hasgeometry	y.			
	a) Triangular	b) Tetrahedral	c) Linear	d) Pentagon	al bipyramidal
14.	Ethene is missed with CO and	Hydrogen gas to produce pro	panal. This is ca	lled	
	a) Mcafee process	b) Oxo process	c) Syn process		d) Liquation process
15.	In which of the following, NH				
	a) Nessler's reagent	b) Reagent for the analysis	of IV group basic	c radical	
	c) Reagent for the analysis of l				d) Tollen's reagent
16.	The basicity of pyrophosphore	4 2 3			
	a) 4	b) 2	c)3		d) 5
17.	Most easily liquefiable gas is	a) Ar	b) Ne	c) He	d) Kr
18.	XeF6 on complete hydrolysis		-) Y-02		4) W-02
10	a) XeOF4	b) XeO2F2	c)XeO3		d) XeO2
19.	Among the following the corre a) HClO, < HClO < HClO, < HC		b) HClO ₄ < HCl	0 < 400 < 4	CIO
	c) HClO ₂ < HClO ₂ < HClO ₃ < HCl	4	d) HClO < HClO	•	3
20.	P ₄ O ₁₀ reacts with hot water to		u)IICIO < IICI	0 ₂ < 11ClO ₃ < 11	CIO ₄
20.	a) H ₁ PO ₁	b) H ₄ P ₅ O ₅	c) HPO,		d) H,PO,
21.	Among the transition metals o	4 = /		(M/M2+) stan	3 4
21.	is a) Ti	b) Cu	c) Mn	(111/11/21) Stain	d) Zn
22.	In acid medium, potassium per				4) 2.11
	a) oxalate	b) Carbon dioxide	c) acetate		d) acetic acid
23.	Which of the following lantha		,		.,
	a) Eu ²⁺	b) Yb ²⁺	c) Ce ²⁺		d) Sm ²⁺
24.	Which of the following oxidat		,	oids?	-
	a) 4	b) 2	c)5		d) 3
25.	The actinoid elements which s				-
	a) Np, Pu, Am	b) U, Fm, Th	c) U, Th, Md		d) Es, No, Lr
26.	A mixture of TiCl4 and trialkyl a				
	a) Bayer reagent	b) Zeigler natta	 c) grignard reas 	gent	d) chromyl chloride

27.	Which of the following is not o	coloured?		
	a) Mn ²⁺	b) Zn ²⁺	c) Cr ³⁺	d) Cu ²⁺
28.	IUPAC name of the complex K,	[Al(C,O,)] is		
	a) potassiumtrioxalatoaluminium		b) potassiumtrioxalatoalumina	ate(II)
	c) potassiumtrisoxalatoalumina		d) potassiumtrioxalatoalumina	
29.	Crystal field stabilization energ			(111)
	a) -0 6 Δ_0	b) 0	c) 2 (P - Δ _o)	d) $2(P+\Delta_0)$
20	0	,	$C/2(\Gamma^{-1}\Delta_{0})$	$(1)^2(1+\Delta_0)$
30.	Which type of isomerism is exh		a) Ontical incommission of Gran	
	a) Coordination isomerism	b) Linkage isomerism	c) Optical isomerism d) Geon	netrical isomerism
31.	How many geometrical isomers		3	
	a) 3	b) 4	c)0	d) 15
32.	Fac-mer isomerism is shown by			
	a) [Co(en) ₃] ³⁺ b) [Co(NH ₃) ₄	(Cl) ₂] ⁺ c) [Co(NH ₃) (Cl) ₃] d) [Co(NH ₃) ₅ (Cl)] SO ₄	
33.	Phthalo blue a bright blue figme	ent is a complex of		
	a) Copper(I) ion	b) Copper (II) ion	c) Nickle (II) ion	d) Nickle (IV) ion
34.	The crystal with a metal deficie	ency defect is		
	a) NaCl	b) FeO	c) ZnO	d) KCl
35.	The cation leaves its normal po	osition in the crystal and mov	ves to some interstitial position	, the defect in the crystal
	is known as a) Schott	ky defect b) F center	c) Frenkel defect d) nor	n-stoichiometric defect
36.	The Yellow colour in NaCl crys	stal is due to		
	a) Excitation of electrons in F c		b) Reflection of light from Cl-	ion on the surface
	c) Refraction of light from Na+i		d) all of the above	
37.	The vacant space in bcc lattice		b) 23 % c) 32%	d) 26%
38.	A ionic compount A _x B _y crystall			
50.	occupying corners of the cube.			r caen race and r ron
	a) AB		c)A ₃ B	d) A ₈ B ₆
39.	The number of atoms per unit c	b) AB ₃	C)A ₃ B	$\mathbf{u}_{1} \mathbf{A}_{8} \mathbf{D}_{6}$
39.				d) ann
40	a) bcc	b) fcc	c) sc	d) ccc
40.	Which of the following closed			() HCD
	a) FCC	b) BCC	c) SC	d) HCP
41.	For the reaction 2NH,> N		$[NH_3]$, $d[N_2]$ / $dt = K_2[NH_3]$, $d[H$	$_{2}$]/dt = K_{3} [NH $_{3}$] then the
	relation between K1, K2 and K3		V	
	a) $K_1 = K_2 = K_3$		c) $1.5K_1 = 3K_2 = K_3$	
42.	The decomposition of phosphi	ne (PH3) on tungsten at low	pressure is a first order reaction	n. It is because the
	(NEET)			
	a) rate is proportional to the su		 b) rate is inversely proportina 	_
	c) rate is independent of the su		 d) rate of decomposition is sle 	
43.	The addition of a catalyst durin			es? (NEET)
	a) Enthalpy	b) Activation energy	c) Entropy	d) Internal energy
44.	What is the activation energy for	or a reaction if its rate double	when the temperature is raised	l from 200k to 400k?
	(R=8.314 JK ⁻¹ mol ⁻¹)			
	a) 234.65 kJ mol-1	b) 434.65 kJ mol ⁻⁴	c) 2.305 KJ mol-1	d) 334.65 J mol ⁻¹
45.	For a first order reaction, the ra	te constant is 6.909 min-1/th	e time taken for 75% conversion	on in miniutes is
	a) (3/2) log2	b) (2/3) log2	c) (3/2) log (3/4)	d) (2/3) log (4/3)
46.	The unit of zero order rate con-	stant is		
	a) litre mol ⁻¹ sec ⁻¹	b) mol litre-1 sec-1	c) sec-1	d) litre2 sec-1
47.	The half life period of a first or	der reaction is 10 minutes.Th	nen its rate constant is	
	a)6.93×102 min-1	b) 0.693×10 ⁻² min ⁻¹	c) 6932×10 ⁻² min ⁻¹	d) 69.3×10 ⁻¹ min ⁻¹
48.	Dissociation constant of NH ₄ C	OH is 1.8x10 ⁻⁵ the hydrolysis		
	a) 1.8x10 ⁻¹⁹	b) 5.55x10 ⁻¹⁰	c) 5.55x10 ⁻⁵	d) 1.80x10 ⁻⁵
49.	H2PO; the conjugate base of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,000000	4) 1.00.110
	a) PO ₄ are conjugate once of	b) P,O,	c) H ₃ PO ₄	d) HPO ₄ 2-
50.	The pH of 10-5 M KOH solution		-,34	2/11104
20.	a) 9	b) 5	c) 19	d) None of these
51.				a) Hone of these
51.	51. If the solubility product of lead iodide is 3.2×10^{-8} , it solubility will be a) 2×10^{-3} M b) 4×10^{-4} M c) 1.6×10^{-5} M d) 1.8×10^{-5} M			
52.	Which of the following fluro co			,
52.	a) RF	h) PF	c) CF	4) SiF

53.	The relation between the diss	sociation constants (Ka, Kb)	and the hydrolysis constant is	
	a) $K_a K_a K_b = K_w$	b) $K_b K_b K_b = K_w$	c) $K_a K_b K_h = K_w$	d) all the above
54.	What is the PH of sea water	a) 5	b) 8	c) 11 d) 10
55.	The number of electrons that	have a total charge of 9650 co	oulombs is	
	a) 6.22 x 10 ²³	b) 6.022 x 10 ²⁴	c) 6.022 x 10 ²²	d) 6.022 x 10 ⁻³⁴
56.	The Molar conductivity of a 0	.5 mol dm ³ solution of AgNO	with electrolytic conductivity	of 5.76 x 10-3 S cm-4 at
	298 K is a) 2.88 S cm2 mol	b) 11.52 S cm ² mol ⁻¹	c) 0.086 S cm ² mol ⁻¹	d) 28.8 S cm ² mol ⁻¹
57.	How many faraday of electric	ity are required for the follow	ing reaction to occur MnO4	> Mn ²⁺
	a) 5F	b) 3F	c) IF	d) 7F
58.	Which of the following electronic	rolytic solution has the least s	specific conductance	
	a) 2N	b) 0.002N	c) 0.02N	d) 0.2N
59.	In H,-O, fuel cell the reaction	*		
	a) $O_{1}^{2}(g) + 2H_{1}O(l) + 4e^{-1} > 0$		b) $H^+(aq) + OH^-(aq) + > H_2$	O(<i>l</i>)
	c) $2H_{*}(g) + O_{*}(g)> 2H_{*}O$		d) H ⁺ +e ⁻ >1/2 H,	
60.	Which of the following is elec			
	a) Lithium salt in an inorganic	_	b) Sodium salt in an inorgani	c solvent
	c) Lithium salt in an organic s		d) Sodium salt in an organic	
61.	Fog is colloidal solution of			
	a) Solid in gas	b) gas in gas	c) liquid in gas	d) gas in liquid
62.			can be applied. Which comme	
	justified?	a) It is not true, ferric chlor		
	b) It is true, Fe3- ions coagula			
	c) It is true, ferric chloride is			
			of negatively charged sol with (C1
63.	The most effective electrolyte	_		
	a) NaCl	b) Ba(NO ₃),	c) K,[Fe(CN).]	d) Al,(SO ₄),
64.			through a colloidal solution is	
	a) Cataphoresis	b) Electrophresis	c) Cogulation	d) Thyndall effect
65.	Adsorption of gas on solid m	-		u) 111/11um 111001
	a) ΔH increased	b) ΔS increases	c) \(\Delta G \) increases	d) ΔS decreases
66.	Which of the following is the			0, 000
	a)24	b)23	c)26	d) 25
67. V			nagnesium bromide will give te	-,
	a) benzaldehyde	b) propanoic acid	c) methyl propanoate	d) acetaldehyde
68.	Assertion : Phenol is more ac		c) memy propunduc	u) acciaiacii, ac
	Reason: Phenoxide ion is reso			
	a) both assertion and reason a		rect explanation of assertion.	
			correct explanation of assertion	n.
	c) assertion is true but reason			
	d) both counties and make	and Class		
	Po	alc. KOH V	$\frac{\text{H}_2\text{SO}_4/\text{H}_2\text{O}}{298\text{K}}Z \text{ The 'Z}$	
69.	In the reaction Ethanol —	\longrightarrow	208K	. IS
	a) ethane	b) ethoxyethane	c) ethyl bisulphite	d) ethanol
70.	On reacting with neutral ferric	chloride, phenol gives		
	a) red colour	b) violet colour	c) dark green colour	d) no colouration.
71.	Which of the following comp	ound can be used as antifreez	e in automobile radiators?	
	a) methanol	b) ethanol	c) Neopentyl alcohol	d) ethan -1, 2-diol
	P/Br2			
72.	Ethanoic acid> 2 - Br	romo ethanoic acid. This react	ion is called	
	a) Finkelstein reaction	b) Haloform reaction	c) Hell - Volhard - Zelinsky r	reaction
	d) none of these		,	
73.	Which one of the following r	educes tollens reagent?		
	a) formic acid	b) acetic acid	c) benzophenone	d) none of these
74.		*	sodium hydroxide solution to g	*
alcohol and acid?				
	_		-	
	alcohol and acid?	b) ethanal	c) ethanol	d) methanol
75.	_	b) ethanal ctions new carbon – carbon b	c) ethanol ond is not formed?	d) methanol

76.	Carboxylic acids have higher boiling points than aldeby	ydes, ketones and even alcohols of	f comparable molecular	
	mass. It is due to them a) more extensive associate	tion of carboxylic acid via van der	Waals force of attraction	
	b) formation of carboxylate ion	c) formation of intramolecula	ar H-bonding	
	d) formation of intermolecular H - bonding			
77.	Which of the following reagent can be used to convert	nitrobenzene to aniline?		
	a) Sn/HCl b) Zn-Hg/NaOH	c) Zn/NH4Cl	d) All of these	
78.	Which one of the following will not undergo Hofmann b	bromamide reaction?		
	a) CH3 CONHCH3 b) CH3 CH2 CONH2	c) CH3 CONH2	d) C6 H5 CONH2	
7 9.	The product formed by the reaction an aldehyde with a	primary amine		
	a) carboxylic acid b) aromatic acid	c) Schiff 's base	d) ketone	
80.	Which of the following amines does not undergo acety	vlation?		
	a) t - butylamine b) ethylamine	c) diethylamine	d) triethylamine	
81.	Ammonium salt of benzoic acid is heated strongly with	P2O 5 and the product so formed	is reduced and then	
	treated with NaNO2 / HCl at low temperature. The final	compound formed is		
	a) Benzene diazonium chloride b) Benzyl alcohol	c) Phenol	d) Nitroso benzene	
82.	Which one given below is a non-reducing sugar?			
	a) Glucose b) Sucrose	c) maltose	d) Lactose.	
83.	In a protein, various amino acids linked together by			
	a) Peptide bond b) Dative bond c) a - Glycosi	dic bond d) B - Glycosidie b	ond	
84.	The pyrimidine bases present in DNA are			
	a) Cytosine and Adenine	b) Cytosine and Guanine		
	c) Cytosine and Thiamine	d) Cytosine and Uracil		
85.	Which of the following vitamins is water soluble?			
	a) Vitamin E b) Vitamin K	c) Vitamin A	d) Vitamin B	
86.	Which of the following amino acids are achiral?			
	a) Alanine b) Leucine	c) Proline	d) Glycine	
87.	Drugs that bind to the receptor site and inhibit its natur			
00	a) antagonists b) agonists	c) enzymes	d) molecular targets	
88.	Natural rubber has a) alternate cis- and trans-confi		trans-configuration	
00	c) all cis-configuration	d) all trans-configuration		
89.	Terylene is an example of	A land	d) malamanahanida	
90.	a) polyamide b) polythene Which one of the following is a bio-degradable polyme	c) polyester	d) polysaccharide	
90.	a) HDPE b) PVC	c) Nylon 6	d)PHBV	
91.	The polymer used in making blankets (artificial wool) is		d)TTIDV	
<i>y</i> 1.	a) polystyrene b) PAN	c) polyester	d) polythene	
92.	Which is used to neutralize the acidity in the stomach.	c) polyester	a) polymene	
12.	a) Ranitidine b) Cetirizine	c) Morphine	d) Asprin	
93.	Which reducing agent is used for the following conver		d) / ispini	
	R-COOH? R-CH2OH			
	a) LiAlH4 b) NaBH4	c) K2Cr2O7	d) KMnO4	
	con H, SO ₄ i) NaOH ii) HCl			
94.	Benzene>Q			
	The compound Q will be			
	a) Aniline b) Phenol	c) Benzaldehyde d) Benz	ene sulphonic acid	
95.	The product formed when acetone reduced by Mg-Hg a	amalgam and water.		
	a) Ethanol b) isopropyl alcohol	c) pinacol	d) propane	
96.	Which is used to in the preparation of artificial fruit es	sences.		
	a) Acetic anhydride b) Benzoic acid	c) Ethyl acetate	 d) sodium acetate 	
	KOH H2O/H+			
97.	CH3CH2NO2> A> B the product B is?			
-	a) CH ₃ CH ₂ OH b) CH ₃ CHO	c) CH ₃ CH ₂ NH ₂	d) CH ₃ NHOH	
98.	Ethanenitrile is Complete hydrolyzed to give	and		
00	a) Acetic acid b) Acetamide	c) Ethanamide	d) Acetaldehyde	
99.				
100	a) Cellulose b) Starch	c) Heparin	d) Glycogen	
100.	Which are non-compound lipids? a) Fats b) Phospholipids	c) Glycolipids	d) Lipoproteins	
	ar cars of the control of the care of the	CIVIIVCAIIIIIIUS	COLUMN TO THE PROPERTY OF THE PARTY OF THE P	