23. JUPAC name of the Complex K, [Al(C,O4),] is a) Potassiumtrioxlatoaluminium (III)

c) Potassium trisoxilato aluminate (III)

24. Which type of isomerism is exhibited by Pt (NH,), Cl,

a) Coordination isomerism b) Linkage isomerism

25. which kind of isomerism is possible for a complex [(Co(NH₃)₄ Br₂] Cl?

ACHIEVEMENT TEST - 2023-24

	 	_	

12	2 - Std	HOIII	V LILLLIAN I	1201	ZOZO Z I	1 1 1 1 1 1	
Tin	ne: 1.30 Hrs		CHE	MISTRY		Total Marks :100	_
1	Which one of the					Total marks .100	•
	Which one of the				MgCO,>MgO+CO	d) Both (a) and (c)	
	a) 2Zn+O,> 2Z		+30,> 2Zno		mgco,>mgo+co	2 0) Both (8) 810 (0)	
	Which of the meta				17-	-	
	a) Al	b) Ni	c) Cu) Zn		
	Wolframite orc is s					esstina	
	a) Smelting	b) Cacimation	c) Roa	esting a	Electro Magnetic Sep	aration	
	Flux is a substance						
	a) Mineral into sil				ties to souble impuriti	es	
	c) Soluble impuriti		urities d) All	of these			
5.	Zinc is obtianed fro	•			at anti-standarder	d) Acid leaching	
	 a) Carbon reduction 		ction using Silve	er c) Electi	rochemical process	d) Acid leaching	
6.	The incorrect state				Time to refined by	Arkel's process	
		d by Mond's Proce		D)	Titanium is refined by	y van Arkers process	
	c) Zinc blande is o	oncentrated by frot	h flotation		محاضات بأباء بالمادي		
	d) In the metallurg	gy of gold the meta	is leached with	dilute sociul	n chloride solution		
7.		imber of electrons			05 15	•	
	a) Six	b) Two	c) Four	d) Three			
8.		carbon in its hydri		41.0			
	a) +4	b) -4	c) +3	d) +2			
9.		al unit of silicates		4) (5:04)4		4 6	
	a) (SiO3) ²	b) (SiO4) ²	c) (SiO)	d) (SiO4)			
10.	Which of the follo			d) Davice			
	a) Graphite	b) Graphene	c) Fullerene	d) Dryice			
11.	Duralumin is an a		a) Al A4a	d) Al, Cu, M	In Mg		
	a) Cu, Mn	b) Cu, Al, Mg	c) Al, Mn	U) AI, CO, IV	III, IIIG		
12.	In which of the fol		sear	hi Reagent	for the analysis of IV	group basic radical	
2.5	a) Nessler's reager	analysis of III grou	n basic radical	d) Tollen's		B P	
12	The basicity of Py	rophorphorus acid	(HPO) is	o, tollers	. 5585		
13.		b) 2	cl 3	d) 5			
1.1	a) 4 Assertion: bond d		of fluorine is gre	ater than chl	orine gas		
14.	Peacon: Chlorine	has more electronic	repulsion than	fluorine '			
	a) Both assertion :	and reason are true	and reasen is the	he correct exp	planation of assertion		
	h) Both assertion	and reason are true	but reason is no	ot the correct	explanation of assertion	on .	
	c) Assertion is tru	e but reason is false	1 1200	d)	Both assertion and rea	ason are false	
15.	Most easily liquel	fiable gas is					
	a) Ar	b) Ne	c) He		d) Kr	1	
16.	Which of the follo	wing is strongest a	cid among all		W	2	
	al HI	b) HF	. c) HBr		d) HCl	2-	
17.	. Which one of the	following is has the	same number of	f unpaired ele	ectrons as presention V	" ,	
	a) Ti ³⁴	b) Fe ³⁺	c) Ni ² *		d) Cr3+	*	
18.	. The magnetic mor	nent of Mn ²⁺ ion is	~ 1 0 05		4) 2 00 014	3.0	
	a) 5.92 BM	b) 2.80 BM	c) 8.95		d) 3.90 BM		
19	. In acid medium p	otassium permanga	nate oxaizea oxa	c) Acetate	d) Acetic	c aicd	
	a) Oxolate	b) Carbon dioxid		**************************************	u) Acetic	2 0.00	
20	. Which of the follo)Wing lanthanoid lo	c) Ce ² *		d) Sm 2+		
- 24	a) Eu2+. Which of the follow	b) Yb ²⁺					
21	 a) +4 	b) +2	c) +5		d) +3		
22	. The actinoid elem	ents which show the		on state of +7	are		
22	a) Np. Pu. Am	b) U.Fm.Th	c) U, Ti	h, Md	d) Es, No. Lr		

b) Potassiumtrioxlatoaluminiate (II)

d) Potassium trioxilato aluminate (III)

c) Optical isomerism d) Geometrical isomerism

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26	a) Geometrical and ioniza	ation b) Geometrica	l and opt	ical c) Optical a	and ionizat	ion d) Ge	eometrical only
20.	A complex is which the or	xidation number of	the metal	is zero is			
27.	a) K ₄ [Fe(CN) ₆] Which of the following is	b) [Fe(CN), (NF paramagnetic in na	(₃) ₃] · iture	c) [Fe(Co) _s]	d) Both	(b) and (c)	
	a) [Zn (NH ₃) ₄] ²⁺	b) [Co (NH ₃) ₆]3+		c) [Ni (H ₂ O) _c] ²	• d) (Ni (CN).]2.	40.50
28.	a) [Zn (NH ₃) ₄] ²⁺ Choose the correct state	ment		2 767	_, , , , ,		
	a) Square planar comple	exes are more stable	than oct	ohedral compla	axes		
	b) The spin only magnet	is moment of ICu I	CI)412- is 1	732 RM and it	hac caaure	nlanar structur	e
	c) Crystal field splitting e	nergy (A) of (co ce)	tic higher	than the (4) a	f (Fo /CN)	plantar structur	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
50	d) Crystal field stabilizat	ion energy of VIII	night ich	ichan the (A ₀) c	or tre (Civie	d stabilization o	£ [Ti[H O]6]2+
29.	 d) Crystal field stabilizat Solid CO₂ is an example 	of	וו צו יוסוכ	igner than the	crystal field	d Stabilization C	[11(11,0)0]
	a) Covalent soild			3373			
20		b) Metallic soli	ġ .	c) Molecular :	solid	d) Ionic Solid	
30.	The vacant space is bcc						
24	a) 48%	b) 23%		c) 32%		d) 26%	
31.	The yellow colour is NaC	I Crystal is due to	10.0		16. 14		
	a) extraction of electrans	s is F Centers	b) Reflect	ction of light fro	om Cl ⁻ ion a	as the surface	
	c) Refraction of light from	n Na* ion	d) all of	the above			
32.	The cation leaves its non	mal position in the o	rystal and	moves to som	e interstiti	al position the o	lefect is the crystal
	is known as					5 - 8	
	a) Schottly defect	b) F Center	c) Frenke	el defect		d) Non-Stochio	metric defect
33.	The Crystal with a metal	defeciency defect is	11° 3430 4000	p = 7.00	***		
	a) NaCl	b) FeO	c) ZnO			d) KCI	
34.	The decomposition of Ph			ow pressure is	a first orde	r rection. It is h	ecause the
	a) Rate is proportional to	the suface coverage	ρ	h) Rate is inver	sly proport	ional to the sur	face coverage
	c) Rate is independent of	the surface coverage	0	d) Rate of deco	mnosition	is slow	race coverage
35.	The addition of a catalys	t during chemical re	action alt	ore which of th	o following	guantities	4.
	a) Enthalpy	b) Activ	ation ener	ers which of th			nal anorms
36.	The rate constant of a re	action is 5.9 v 10-2 c	t The end	gy C) Entr	ору .	a) inter	nal energy
50.	a) First order					A) TESSA	
37.			ا نام د داداندا	c) Second order		a) Inira oraer	
57.	If the initial concentration	n or the reactant is c	loublea th	e time for half	reaction is	also double thei	the order of the
	reactions	L\0		A Francisco			
20	a) Zero	b) One) Fraction		d) None	7.37
38.	The half life period of a ra				s, 1g of eler		
20	a) (1/2) g	b) (1/4)g		c) (1/8) g		d) (1/16)g
39.	Conjugate base for brons						
	a) OH and H ₂ F·N* respect	ively) H ₃ O+ and F- re			
	c) OH and F respectively			l) H ₃ O+ and H ₂ F	respective	ely	
40.	Which of these is not like						
	a) BF ₃	b) PF ₃) CO	d) F-		
41.	If the solubility product of			The state of the s			
	a) 2x10 ⁻³ M	b) 4x10 M	С) 1.6x10 ^{.5} M	d) 1.8x10 ⁻⁵	'M · -	
42.	The pH of 10-5M kOH Solut		60.0		Sin		We .
	a) 9	b) 5	c	19	d) more of	these	
43.	H ₄ PO the Conjugate base				1) 115 - 3-		
1942.5	a) PO ₄ 3-	b) P ₂ O ₅		H ₃ Po ₄	d) HPo ₄ 2-	10	
44.	The number of electrons t					1034	
	a) 6.22 x 10 ²³	b) 6.022 x 10 ²⁴	, c)	6.022 x 10 ²²	d) 6.022 x	10'54	
45.	Faraday constant is define		6.1	Ch	Long San		
	a) Charge carried by 1 elec	ctron		Charge carried			
	c) Charge required to depo	osit one mole of subs	tance d	Charge carried	by 6.22 x 1	Low electrons	
46.	How many faradays of ele-		for the for	lowing reaction		InO.⁴ → Wu _s .	
	a) 5F	b) 3F			d) 7F		
47.	During electrolysis of melt	an sodium chloride t	ne time re	equirea to proa	uce 0.1 mo	le of chlorine ga	s using a
	current of3A is		-1	220			
	a) 55 minutes	b) 107.2 minutes		220 minutes	· d)	330 minutes	
48.	Which of the following ele	ectrolytic solution ha	s the leas	t specific condu	ctance		
	a) 2N	b) 0.002N	. c)	0.02N	d) (D.2N	
19.	Among the following cells))	raga hattanı			12 - 2
3	I) Leclanche cell II) Nick	el - cadmium cell II	i) Lead sto	rage partery	10)	Mercury cell pr	imary cells
	are .	(A) (1 M)	1	III and IV		l and w	
= =	a) I and IV	b) I and III	- (-)	in dia iv	a) i	l and III	
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50.	Which of the following is a) reversible		n? ith increase in temperature	
51.	 c) Low heat of adsorption Fog is colloidal solution o 	d) increases w	ith increase in surface are	a
	a) Solid is gas	b) Gas is gas	c) Liquid is gas	d) Gas is liquid .
52.	The most effective electrol a) NaCl	yte for the coagulation of b) Ba (No ₁),	AS ₂ S ₃ Sol is	d) A1 (SO.)
53.		d when a beam of light is	c) K ₃ [Fe(CN) ₆] passed through a colloidal	d) Al ₂ (SO ₄) ₃
	a) Cataphoresis	b) Electrophoresis	c) Coagulation	d) Tyndall effect
54.			eneous catalysis	
٠	a) Manufacture of ammonc) Hydrogenation of oil		d) Hydrolysis of sucrose	
55.	Adsorption of a gas is solid			
56.	 a) Δ H increases Which are of the following 	b) Δ S increases is the strongest acid	c) ∆ G increases	d) Δ S decreases
	a) 2-Nitrophenol	b) 4-Chlorophenol	c) 4-Nitrophenol	d) 3-Nitrophenol
57.	Carbolic acid is	h) Dissipated		the second second
58.	a) Phenol Assertian : Phenol is more	b) Picric aicd	c) Benzoic acid	d) Phenylacetic acid
50.	Reason : Phenoxide ion is			
	a) Both assertion and reaso		the correct evaluation of	essertion
	b) Both assertion and reason	on are true but reason is	not the correct explantion	of assertion
	c) Assertion is true but rea			on and reason are false
59.	Isoprophylbenzene an air o	xidation in the presence	of dilute acid gives	
	a) C _s H _s COOH	b) C^eH^eCOCH^e	c) C _e H _e COC _e H _e	d) C _c H _c OH
60.	Which of the following com	npound can be used as a	ntifraese is automobile rad	
(10)	a) Methanol	b) Ethanal	c) Neopentyl alcohol	d) Ethan -1,2 diol
61.	An reacting with neutral fe			• • • • •
62.	 a) Red colour In the following reaction 	The state of the s	c) Dark Green Colour	d) No Colouanation
02.		H2SO4 → x Product x wi HgSO4	ill not give	
	a) Tollen's test	b) Victor meyer test	c) lodoform test	d) Fehling solution test
	KĆN H.O+	PCI		
63.	CH3 Br \xrightarrow{KCN} (A) $\xrightarrow{H_3O^+}$	(B) $\xrightarrow{\text{CS}}$ (C) Produc		
64	a) Acetyl chloride		c) α -chloro cycno ethan	oic acid d) none of these
04.	Which are of the following a) Formic acid	b) Acetic acid	c) Benzophenone	d) None of these
65.	Which are of the following			d) None of these
	a) Aldol condensation	b) Cannizaro reaction	c) Benzoin Condensation	
66.	The reagent used to disting			of trone or these
	a) Tollens reagent	b) Féhlign's solution		rozine d) Semicarbazide
67.	In which of the following re-	action new carbon - carbo	on bond is not formed	
		b) Friedel craft reaction		d) Wolfkishner reduction
68.		boiling points than aldehy	ydes, ketones and even alco	phols of comparable molecularmas
	It is due to their			
	a) More extensive association			
	 b) Formation of carboxylate d) Formation of intermolecular 		nation of intramolecular H	-bonding
69.	Which of the following reage		t nitrobenzene to aniline	
-5.	a) Sn / HCl	b) ZnHg / NaoH	c) Zn/NH,Cl	d) All of these
70.	Which are of the following v			ay i iii oi tii oo
	a) CH, CO NH CH,	b) CH, CH, CO NH,	c) CH, CO NH,	d) C, H, CO NH,
71.	The product formed by the r	eaction an aldehyde with		
		b) Aromatic acid	c) Schiffasbase	d) Ketone
72.	Nitrobenbenzene and reaction			
72		b) 2,4,6 - trinitrobenzene		zene d) 1,3 - dinitrobenzene
73	Secondary nitro alkanes read	ct with nitrous acid to fo b) Blue Solution		n d) Yellow Solution
74.	 a) Red Solution Which of the following amin 		c) Green Solution	a) reliow solution
		b) Ethylamine	c) Diethylamine	d) Triehtylamine
		***************************************		· 12 Chemistry Page 3

		2			
75.	Which are given below is a r		c) Maltose		d) Lactose
76	,	b) Sucrose	c) Maltose		
76.	In a proteinvarious amino ad	b) Dative bond	c) a-Glycosidic be	ond	d) β-Glycosidic bond
77	a) Peptide bond Among the following the ac	. 50. A. 56 3505			
77.		b) α-methylglycine	c) 2-hydrocymeth	ylserine	d) Tryptophan
78.	Vitamin B2 is also known as		c/ 2, c. co,	•	
76.		b) Thiamine	c) Nicotinamide		d) Pyridoxine
79.	α -D(+) glucose and β -D(+) g	•	-,		
, , ,		b) Anomers	c) Enentiomers		d) Carformational
	isomers	, T	,		
80.	Which of the following is an	n analygesic			3.0
		b) Chloromycetin	c) Asprin		d) Pencillin
81.	Aspirin is a an		9 1		
	and the second s	b) benzoyl Salicylic acid	c) Cholorobenzoi	c acid	d) Anthranilic acid
82.	Natural rubber has				
	a) alternate cis and trans - (Configuration	b) Random cis - and trans	- Config	guration
	c) All cis - Configuration		d) All trans - Configuration		
83.	Which one of the following	is a bio degradable polym	er		
	a) HDPE	b) PVc	c) Nylan 6	d) PHBv	
84.	The polymer used is making	blankets (artificial wool)	is .		
	a) Polystyrane	b) PAN	c) Polyester	d) Polyt	hene
85.	Which is used as a collector	is froth flotation method			
	a) Sodium ethyl xanthate	b) Sodium acetate	c) Sodium hydroxide ,	d) Sodi	um .
86.	is employed septi	ic agent to arrest bleeding			al i
	a) Potassium chloride	b) Aluminium chloride	c) Potash Alum	d) Zeoli	te
87.	The Shape of Ammonia is				
*	a) Tetrahedral	b) Trigonal	c) Planar		d) Pyramidal
88.	Zeigler - Natta Catalylst is				
2	a) A mixture of TiCl, and tri	alkyl aluminium	b) TiCl, and ethyl bromide		
	c) Vcl, and Aluminium chlori	ide	d) None of these		
89.	An example for antidentate	ligard is			
	a) water	b) thiocyanate	c) Ammonia	d) Pyrio	dine
90.	The radius ratio is 0.225 - 0				7 - 1
	a) Trigonal planar	b) Tetrahedral	c) Octahedral	d) Cubi	ic
91.	Example for Zero order read	ction	13.1		
	a) lodination of acetone is a	acid medium	b) decomposition of dinit		
	c) Isomerisation of cyclo pro	opane to propene	d) Hydrolysis of ester in a	icia med	aium
92.	The ratio of ionic Product of		3 4) 1, 10		10 15 6 5
	a) 1x10' b) 1x10				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
93.	The solution containing acc	eticacid and soldium acet	ate is	ط/ ١٨٠٠	- fabrica M. F. S.
	a) Basic Buffer solution	b) Acidic buffer Solution	c) Neutral Solution	d) Non	e of these
94.	EMF of standard hydrogen	electrode is assigned as	v d) 1.2V		
	a) OV b) 1.1V	c) 0.76	V d) 1.2V		1 4 1 1
95.	The size of colloidal particle	e ranges from	a) 101084 to 10984	d) 10%	M to 10°M
	a) 10°M to 10°M	b) 10°M to 10°M	c) 1010M to 10°M	u) 10 i	AL TO TO -W
96.	Fentons reagent is		4) 5050 1 4 0	4) (0.440
	a) FESO, + H ₂ O ₂	b) CuSO ₄ +H2O ₂	c) FeSO ₄ + H ₂ O	u) cus	O4 + H3O
97.	IUPAC name of Acetaldol		a) 2 Undergo butanal	a) 1 11	udan a bara
	a) 2-Hydroxy butanclk	b) Hydroxy butane	c) 3-Hydroxy butanal	a) 1-H	ydroxy butanal
98.	Which is more basic in nat	ure	AC H NH	طا ۱۱۱۸	and the state of
	a) (C2H _s), NH	b) (C,H,), N	c) C,H,NH,	d) NH ₃	
. 99	When iodine is added to an		r is appeared	4) C-1	Australian
	a) Scarlet Red	b) Blue	c) Purple	u) Col	ourless
100.		ral rubber is	c) Cis-Chloroprene	d\ T	ns Chlores
	a) Cis-isoprene	b) Trans-isoprene	c) dis-chioroptene	uj irai	ns Chloroprene