TIME

: 1.00HRS

CLASS

: XII

ONE MARK TEST-I

(FULL PORTION/BOOK BACK)

SUBJECT: CHEMISTRY **MARKS: 40** 40 X 1 = 40CHOOSE THE CORRECT ONE 1. The metal oxide which cannot be reduced to metal by carbon is a) PbO b) Al_2O_3 c) ZnO d) FeO 2. Electrochemical process is used to extract a) Iron b) Lead c) Sodium d) silver 3. In the extraction of aluminium from alumina by electrolysis, cryolite is added to a) Lower the melting point of alumina b) Remove impurities from alumina c) Decrease the electrical conductivity d) Increase the rate of reduction 4. Which of the following is used for concentrating ore in metallurgy? a) Leaching b) Roasting c) Froth floatation d) Both (a) and (c) 5. An aqueous solution of borax is a) neutral d) amphoteric b) acidic c) basic 6. In diborane, the number of electrons that accounts for banana bonds is d) three a) six b) two c) four 7. Most easily liquefiable gas is c) He d) Kr b) Ne 8. In which of the following, NH₃ is not used? a) Nessler's reagent b) Reagent for the analysis of IV group basic radical c) Reagent for the analysis of III group basic radical d) Tollen's reagent 9. Which of the following d block element has half filled penultimate d sub shell as well as half filled valence sub shell? c) Pt b) Pd d) none of these 10. Which of the following oxidation states is most common among the lanthanoids? d) +3a) +4b) +2c) +511 . Fac-mer isomerism is shown by : a) $[Co(en)_3]^{3+}$ b) $[Co(NH_3)_4Cl_2]^+$ c) $[Co(NH_3)_3Cl_3]$ d) $[Co(NH_3)_5Cl] SO_4$ 12. A complex in which the oxidation number of the metal is zero is a) K₄[Fe(CN)₆] b) [Fe(CN)₃(NH₃)₃] c) [Fe(CO)₅] d) both b and c 13. Graphite and diamond are a) Covalent and molecular crystals b) ionic and covalent crystals d) both molecular crystals c) both covalent crystals 14. Solid CO₂ is an example of a) Covalent solid b) metallic solid c) molecular solid d) ionic solid 15. In calcium fluoride, having the flurite structure the coordination number of Ca²⁺ ion and F⁻ Ion are a) 4 and 2 b) 6 and 6 c) 8 and 4 d) 4 and 8 16. The addition of a catalyst during a chemical reaction alters, which of the following quantities b) Internal energy c) Activation energy d) Enthalpy a) Entropy

is a

		0 ⁻² s ⁻² .the order of reaction	
,	b) Zero order	c) second order	d) Third order
18. Assertion: rate of re	eaction doubles when	the concentration of the	reactant is doubles if it is
first orde	er reaction.		
Reason: rate consta	ant also doubles		
 a) Both assertion an 	d reason are true and	reason is the correct exp	planation of assertion.
b) Both assertion an	d reason are true but	reason is not the correct	explanation of assertion.
c) Assertion is true b	out reason is false.		
d) Both assertion an	d reason are false.		
•	ons of sodium formate	, anilinium chloride and p	ootassium cyanide are
respectively			
•	•	basic c) basic, neutral, l	
_		bronsted acid as well as	
a) HPO ₄ ²⁻	b) HCI	c) Br-	d) SO ₄ ²⁻
21. Faraday constant is			
a) charge carried by			
, .	one mole of electrons		
	deposit one mole of	substance	
	6.22X10 ¹⁰ electrons.		
22. Among the followin	g cells		
I) Leclanche cell			
II) Nickel – Cadmiu			
III) Lead storage ba	attery		
IV) Mercury cell		Ay D	
Primary cells a			
a) I and IV	b) I and III	c) III and IV	d) II and III
		charge of 9650 coulomb	
·		c) 6.022 X 10 ²²	d) 6.022 X 10 ⁻³⁴
24. Which of the follow	ing is incorrect for phy	·	
a) reversible		b) increases with incr	·
c) low heat of adso		d) increases with incr	
•		e is spontaneous and ex	
a) ∆H increases	b) ΔS increases	c) ∆G increases	d) ∆S decreases
	ing compounds on rea	action with methyl magne	sium bromide will give
tertiary alcohol.		.	
a) benzaldehyde		c) methyl propanoate	
		phenol to give salicylade	
a) Dichloro methar	,	,	d) CO ₂
28. Williamson synthes	sis of preparing dimeth		
a) SN₁ reactions		b) SN ₂ reaction	
c) electrophilic addi		d) electrophilic	substitution
29. The formation of cy			
 a) nucleophilic substitution 		b) electrophilic substitution	
c) electrophilic addi		d) Nucleophilic	addition
30. Which one of the fo	•	-	
a) formic acid	b) acetic acid	c) benzophenone	d) none of these

31. The reagent used	d to distinguish betwe	een acetaldehyde and	benzaldehyde	is
a) Tollens reager	nt b) Fehling's solution	on c) 2,4 – dinitrophe	enyl hydrazine	d) semicarbazide
32. The product form	ed by the reaction ar	n aldehyde with a prin	nary amine	
a) carboxylic acid	b) aromatic acid	c) schiff 's base	d) ketone	
33. Which of the follo	wing amines does no	ot undergo acetylatior	1?	
a) t – butylamine	b) ethylamine	c) diethylamine	d) triethy	lamine
34. Which one given	below is a non-reduc	cing sugar?		
a) Glucose	b) Sucrose	c) maltose	d) Lactose)
35. Which of the follo	wing amino acids are	e achiral?		
a) Alanine	b) Leucine	c) Proline	d) Glycine	
36. The pyrimidine ba	ases present in DNA	are		
a) Cytosine and Ad	enine	b) Cytosine and Gu	ıanine	
c) Cytosine and Th	iamine	d) Cytosine and Ura	acil	
37. Aspirin is a/an				(5)
 a) acetylsalicylic a 	cid	b) benzoyl salicylic	acid	
c) chlorobenzoic a	cid	d) anthranilic acid		
38. Natural rubber ha	as			
a) alternate cis- a	nd trans-configuration		cis- and trans-co	onfiguration
c) all cis-configura	ation	d) all trans-	configuration	
39. Which one of the	-			
a) HDPE	b) PVC	c) Nylon 6	d) PH	BV
40. Which of the follo				
a) Orlon	b) PVC	c) Teflon	d) PH	BV
		A.		

ONE MARK TEST-II

(FULL PORTION/BOOK BACK)

CLASS TIME : 1.00HRS : XII SUBJECT: CHEMISTRY **MARKS: 40 CHOOSE THE CORRECT ONE** 40 X 1 = 401. Which of the metal is extracted by Hall-Heroult process? b) Ni c) Cu d) Zn 2. Flux is a substance which is used to convert b) Infusible impurities to soluble impurities a) Mineral into silicate c) Soluble impurities to infusible impurities d) All of these 3. Zinc is obtained from ZnO by a) Carbon reduction b) Reduction using silver d) Acid leaching c) Electrochemical process 4. The element that does not show catenation among the following p-block elements is b) silicon c) Lead d) germanium a) Carbon 5. Which of the following is not sp² hybridised? b) grapheme d) dry ice a) Graphite c) Fullerene 6. The element that does not show catenation among the following p-block elements is c) Lead d) germanium a) Carbon b) silicon 7. The correct order of the thermal stability of hydrogen halide is a) HI > HBr > HCl > HF b) HF > HCl > HBr > HI d) HI > HCI > HF > HBr c) HCI > HF > HBr > HI 8. Among the following, which is the strongest oxidizing agent? c) Br₂ b) F₂ d) l_2 9. The magnetic moment of Mn²⁺ ion is b) 2.80BM c) 8.95BM a) 5.92BM d) 3.90BM 10. The most common oxidation state of actinoids is a) +2 b) +3c) +4d) +6 11. The magnetic moment of 1.73 BM will be shown by one among the following a) $[Cu(NH_3)_4]^{2+}$ b) $[Ni(CN)_4]^{2-}$ d) [COCl₆]⁴⁻ c) TiCl₄ 12. IUPAC name of the complex $K_3[Al(C_2O_4)_3]$ is a) Potassiumtrioxalatoaluminium(III) b) Potassiumtrioxalatoaluminate(II) c) Potassiumtrisoxalatoaluminate(III) d) Potassiumtrioxalatoaluminate(III) 13. The vacant space in bcc lattice unit cell is a) 48% b) 23% c) 32% d) 26% 14. The yellow colour in NaCl crystal is due to a) excitation of electrons in F centers b) reflection of light from CI- ion on the surface c) refraction of light from Na+ ion d) all of the above 15. Schottky defect in a crystal is observed when a) unequal number of anions and cations are missing from the lattice b) equal number of cations and anions are missing from the lattice c) an ion leaves its normal site and occupies an interstitial site d) no ion is missing from its lattice.

16. The rate constan	t of a reaction is 5.8 X 10	² s ⁻¹ . The order of react	tion is :
a) First order	b) Zero order c)	Second order	d) Third order
17. If 75% of a first			the same reaction under
the same condition	ons would be completed ir	n:	
a) 35 minutes	b) 20 minutes c)	75 minutes	d) 30 minutes
18. The decomposition	on of phosphine (PH ₃) on	tungsten at low pressu	re is a first order reaction.
It is because the			
a) rate is proportion	onal to the surface covera	age	
,	y proportional to the surfa	•	
	dent of the surface covera		
d) rate of decomp			
19. The pH of an aqu	ueous solution is Zero. The	e solution is	
a) slightly acidic	b) strongly acidic	c) neutral	d) basic
20. Which of these in	not likely to act as lewis l	base?	
a) BF ₃	b) PF ₃	c) CO	d) F
21. how many farada	ays of electricity are requir	ed for the following rea	ction to occur
$MnO^{4+} \rightarrow Mn^{2+}$			
a) 7F	b) 5F	c) 3F	d) 1F
22. Zinc can be coate	ed on iron to produce galv	anized iron but the rev	erse is not possible. It is
because		1.0	
a) Zinc is lighter t	nan iron		
•	melting point than iron		
c) Zinc has lower	negative electrode potent	ial than iron	
-	r negative electrode poten		
23. In H ₂ -O ₂ fuel cell	the reaction occurs at cat		
a) $2H_2(g) + O_2(g)$		b) $H^+ + e^- \rightarrow 1/2 H$	
, , , , ,	(I) + 4e ⁻ →4OH ⁻ (aq)	d) H ⁺ (aq) + OH ⁻ (a	aq) \rightarrow H ₂ O _(I)
24. Fog is colloidal s	olution of		
a) solid in gas	, 0	, ,	d) gas in liquid
	following is an example for		sis?
,	f ammonia by Haber's pro		
	sulphuric acid by contact	process	
c) hydrogenation			
	ucrose in presence of dil H		
	following is the strongest		
, ,	b) 4 – chlorophenol	•	d) 3 – nitrophenol
	ol is more acidic than etha		
	kide ion is resonance stab		
•	nd reason are true and re	•	
•	nd reason are true but rea	ason is not the correct e	explanation of
assertion.	but seems to false		
c) assertion is true			
,	nd reason are false.	anal givas	
-	neutral ferric chloride, phe b) violet colour	-	d) no colouration
C1 150 60000	DI VIDIGE GUIDUI	or uain discil coloul	นา แบ บบเบนาสแบบ.

29. In the following reaction

Product 'X' will not give

a) lodoform test

- b) Tollen's test
- c) Fehling solution test
- d) victor meyertest.
- 30. Which one of the following reaction is an example of disproportionation reaction
- a) Aldol condensation
 b) cannizaro reaction
 c) Benzoin condensation
 31. In which of the following reactions new carbon carbon bond is not formed?
 - a) Aldol condensation b) Friedel craft reaction c) Kolbe's reaction d) Wolf kishner reduction
- 32. When aniline reacts with acetic anhydride the product formed is
 - a) o aminoacetophenone

b) m-aminoacetophenone

c) p - aminoacetophenone

- d) acetanilide
- 33. Which one of the following is most basic?
 - a) 2,4 dichloroaniline

b) 2,4 - dimethyl aniline

c) 2,4 - dinitroaniline

- d) 2,4 dibromoaniline
- 34. Which of the following reagent can be used to convert nitrobenzene to aniline
 - a) Zn/Hg/NaOH
- b) Zn/NH₄Cl
- c) Sn/HCI
- d) All of these

- 35. Among the following the achiral amino acid is
 - a) 2-ethylalanine
- b) 2-methylglycine
- c) 2-hydroxymethylserine
- d) Tryptophan

d) none of these

- 36. Which of the following vitamins is water soluble?
 - a) Vitamin E
- b) Vitamin K
- c) Vitamin A
- d) Vitamin B
- 37. Drugs that bind to the receptor site and inhibit its natural function are called
 - a) antagonists
- b) agonists
- c) enzymes
- d) molecular targets

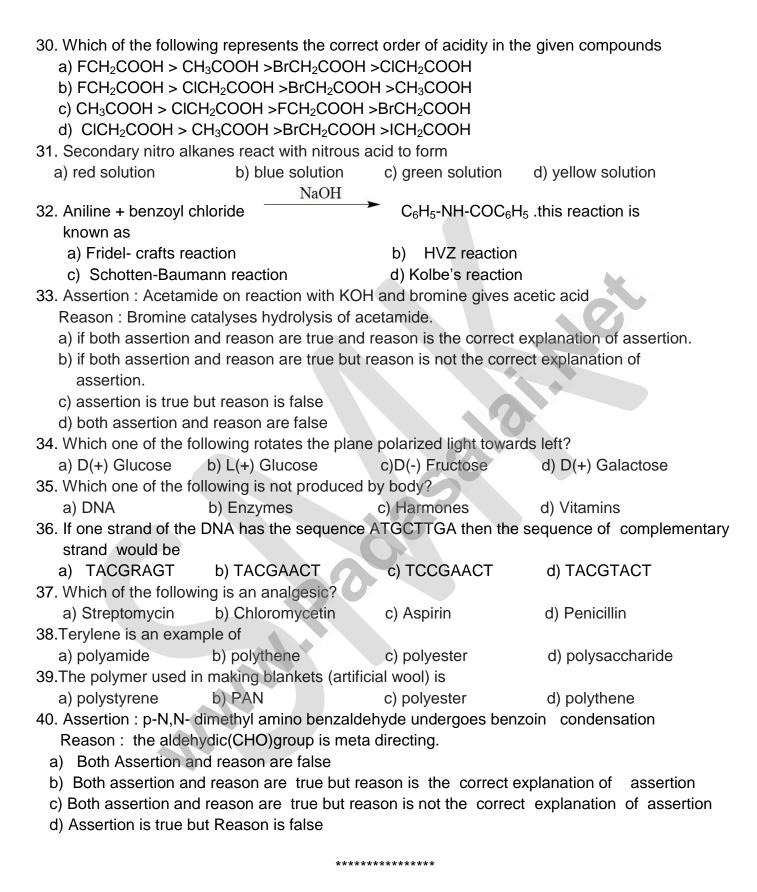
- 38. Nylon is an example of
 - a) polyamide
- b) polythene
- c) polyester
- d) poly saccharide
- 39. Non stick cook wares generally have a coating of a polymer, whose monomer is
 - a) ethane
- b) prop-2-enenitrile
- c) chloroethene
- d) 1,1,2,2-tetrafluoroethane
- 40. Regarding cross-linked or network polymers, which of the following statement is incorrect?
 - a) Examples are Bakelite and melamine
 - b) They are formed from bi and tri-functional monomers
 - c) They contain covalent bonds between various linear polymer chains
 - d) They contain strong covalent bonds in their polymer chain

ONE MARK TEST-III

(FULL PORTION/BOOK BACK)

CLASS : XII SUBJECT : CHEMISTRY	TIME : 1.00HRS MARKS : 40
CHOOSE THE CORRECT ONE	40 X 1 = 40
1. Wolframite ore is separated from tinstone by the process of	
a) Smelting b) Calcination c) Roasting d) Elect	romagnetic separation
2. Which one of the following ores is best concentrated by froth -	floatation method?
a) Magnetite b) Haematite c) Galena d) Cass	siterite
3. Extraction of gold and silver involves leaching with cyanide ion	. silver is later recovered by
a) Distillation b) Zone refining c) Displacement with zince	d) liquation
4. The compound that is used in nuclear reactors as protective sl	nields and control rods is
a) Metal borides b) metal oxides c) Metal carbonates	d) metal carbide
5. The geometry at which carbon atom in diamond are bonded to	each other is
a) Tetrahedral b) hexagonal c) Octahedral d) none of these
6. Which of the following is strongest acid among all?	
a) HI b) HF c) HBr	d) HCI
7. The basicity of pyrophosphorous acid (H ₄ P ₂ O ₅) is	
a) 4 b) 2 c) 3	d) 5
8. The catalytic behaviour of transition metals and their compoun	ds is ascribed mainly due to
a) their magnetic behaviour b) their u	unfilled d orbitals
c) their ability to adopt variable oxidation states d) their of	chemical reactivity
9. In acid medium, potassium permanganate oxidizes oxalic acid	to
a) oxalate b) Carbon dioxide c) acetate d) ac	cetic acid
10. Which one of the following is not correct?	
a) La(OH) ₃ is less basic than Lu(OH) ₃	
b) In lanthanoid series ionic radius of Ln3+ ions decreases	
c) La is actually an element of transition metal series rather th	an lanthanoid series
d) Atomic radii of Zr and Hf are same because of lanthanoid c	ontraction
11. How many geometrical isomers are possible for [Pt(Py)(NH ₃)	(Br)(Cl)] ?
a) 3 b) 4 c) 0	d) 15
12. Oxidation state of Iron and the charge on the ligand NO in [Fe	e(H ₂ O) ₅ NO]SO ₄
a) +2 and 0 respectively b) +3 and 0 respectively	tively
c) +3 and -1 respectively d) +1 and +1 respectively	ectively
13. The crystal with a metal deficiency defect is	
a) NaCl b) FeO c) ZnO	d) KCI
14. The cation leaves its normal position in the crystal and moves	s to some interstitial position, the
defect in the crystal is known as	
a) Schottky defect b) F center c) Frenkel defect	d) non-stoichiometric defect
15. Assertion: due to Frenkel defect, density of the crystalline sol	id decreases.
Reason: in Frenkel defect cation and anion leaves the crystal.	
a) Both assertion and reason are true and reason is the correct	ct explanation of assertion.
b) Both assertion and reason are true but reason is not the co	rrect explanation of assertion.
c) Assertion is true but reason is false.	
d) Both assertion and reason are false	

16. If the initial concentration of the reactant is of Then the order of the reaction is	doubled, the time for h	nalf reaction is also doubled.		
a) Zero b) one c)	Fraction d)	none		
17. zero order reaction X → product ,with an ini	,			
10 min. if one starts with concentration 0.04l				
		sing the given information		
, , , , , , , , , , , , , , , , , , , ,	•	•		
18. The correct difference between first and se				
a) A first order reaction can be catalysed; a				
b) The half life of a first order reaction does	not depend on [A ₀]; th	e nair life of a second order		
reaction does depend on [A ₀].				
c) The rate of a first order reaction does not				
second order reaction does depend on re-				
d) The rate of a first order reaction does depe	end on reactant conce	entrations; the rate of a		
second order reaction does not depend of	n reactant concentrat	ions.		
19. Conjugated base for bronsted acids H ₂ O an	d HF are :			
a) OH ⁻ and H ₂ FH ⁺ respectively b)	H ₃ O ⁺ and F ⁻ resp	pectively		
c) OH ⁻ and F ⁻ respectively d)	H ₃ O ⁺ and H ₂ F ⁺ re	spectively		
20. Which of the following fluoro compounds is	most likely to behave	as a lewis base?		
a) BF ₃ b) PF ₃ c)	CF ₄	d) SiF ₄		
21. Which of the following electrolytic solution h	as the least specific o	onductance		
	0.02N	d) 0.2N		
22. Assertion : pure iron when heated in dry air	is converted with a la	yer of rust.		
Reason: Rust has the compositionFe ₃ O ₄				
a) if both assertion and reason are true and	reason is the correct of	explanation of assertion.		
b) if both assertion and reason are true but reason is not the correct explanation of assertion.c) assertion is true but reason is false				
d) both assertion and reason are false				
23. The phenomenon observed when a beam of	f light is passed throu	gh a colloidal solution is		
a) Cataphoresis b) Electrophoresis	c) Coagulation	d) Tyndall effect		
24. Hair cream is	c) Coagulation	a) Tyridaii Circot		
a) gel b) emulsion	c) solid sol	d) sol		
25. Carbolic acid is	c) 3011d 301	4) 301		
) benzoic acid	d) phenylacetic acid		
		,		
26. Which of the following compound can be us a) methanol b) ethanol c)				
	Neopentyl alcohol	d) ethan -1, 2-diol		
27. HO- CH ₂ - CH ₂ – OH on heating with periodi	•	4), CO		
a) methanoic acid b) Glyoxal	c) methanal	d) CO ₂		
28. Predict the product Z in the following series	A CHANGE			
PCI ₅	C_6H_6	i) CH ₃ MgBr		
Ethanoic acid —— x —	→ Y -	-		
An	hydrous AICI ₃	(ii) H ₃ O ⁺		
a) $(CH_3)_2C(OH)C_6H_5$ b) $CH_3CH(OH)C_6H_5$				
29. Which one of the following undergoes react	on with 50% sodium	hydroxide solution to		
give the corresponding alcohol and acid				
a) Phenylmethanal b) ethanal	c) ethanol	d) methanol		



Kindly send me your study materials to padasalai.net@gmail.com