# **CONCEPT APPLICATION LEVEL - III**

# **SECTION-A**

MULTIPLE CHOICE QUESTIONS :						
Q.1						
	(A) Ductility	(B) Sonorous	(C) Dullness	(D) Electrical conduction		
Q.2	The most abundant ele	ement in the universe is:				
Q.2	(A) hydrogen	(B) oxygen	(C) helium	(D) carbon		
Q.3		hod of protecting iron fro		-		
	(A) silver	(B) gallium	(C) zinc	(D) aluminium		
Q.4	In extraction of coppe	r. the flux used is				
C	(A) FeO	(B) SiO <sub>2</sub>	(C) CaO	(D) FeSiO <sub>2</sub>		
Q.5		ous mixtures of a metal tail tail as one of its constitue		al. Which among the following		
	(A)Amalgam	(B) Brass	(C) Bronze	(D) Steel		
	()8	(_)	()	(_)~		
Q.6		g is purest form of carbo				
	(A) Diamond	(B) Graphite	(C) Fullerenes	(D) Charcoal		
Q.7	Which among the follo	owing alloys contain mer	curv as one of its constit	uents?		
<b>X</b> .,	(A)Alnico	(B) Solder	(C) Stainless steel	(D) Zinc Amalgam		
Q.8		g methods is suitable for		pan from rusting?		
	<ul><li>(A) Applying paint</li><li>(C) Applying a coating</li></ul>	ofzinc	(B) Applying grease (D) All of these			
Q.9	•	s are not conductors or e	lectricity, which of the f	following is a good conductor of		
	electricity?	$(\mathbf{D}) \subset 1$	(0) D: 1	$(\mathbf{D}) \in [1,1]$		
Q.10	(A) Fullerenes Food cans are coated	(B) Graphite with tin and not with zin	(C) Diamond	(D) Sulphur		
Q.10	(A) zinc is costlier than		(B) zinc is less reactive	e than tin		
	(C) zinc is more reacti		(D) zinc has a higher m			
0.11	11 Electrical wires have a coating of an insulating materials. The material, generally used is					
Q.11	(A) sulphur	(B) graphite	(C) PVC	(D) none of these		
	(A) sulpitui	(D) graphic		(D) none of these		
Q.12	Which of the following	gnon-metal is a liquid?				
	(A) Sulphur	(B) Phosphorus	(C) Carbon	(D) Bromine		
Q.13	The liquid metal at roc	m temperature is:				
Q.13	(A) Mercury	(B) Bromine	(C) Sodium	(D) Gold		
	(-)		(-)~~~~~~			

Q.14	Non-metals are: (A) generally liquids (C) generally solids ar	nd gases	<ul><li>(B) generally gases</li><li>(D) generally gases and</li></ul>	d liquids	
Q.15	The metal which is stored in kerosene: (A) Phosphorus (B) Magnesium		(C) Sodium	(D) Zinc	
Q.16	Materials around us can be classified into: (A) Elements and compounds (C) Acids and bases		<ul><li>(B) Metals and non-metals</li><li>(D) None of these</li></ul>		
Q.17	All metals are solids ex (A) Sodium	(B) Calcium	(C) Mercury	(D) Hydrogen	
Q.18	Metal oxides are of na (A)Acidic	ture: (B) Basic	(C) Neutral	(D) All of these	
Q.19	The metal which can b (A) Sodium and potase (C) Sodium and merce	sium	<ul><li>(B) Barium and calcium</li><li>(D) Potassium and calcium</li></ul>		
Q.20	When non-metals react with water then: (A) Hydrogen gas is formed (C) Non-metals do not react with water		<ul><li>(B) Carbon dioxide gas is formed</li><li>(D) None of these</li></ul>		
Q.21	The metal which is liquid at room temperatu (A) sodium (B) bromine		is (C) calcium	(D) mercury	
Q.22	Which one of the follo (A)Aluminium	wing metal is the most d (B) Copper	uctile? (C) Silver	(D) Gold	
Q.23	Which one of the follo (A) Iron	owing metal is the most r (B) Gold	eactive and stored in ker (C) Copper	rosene? (D) Potassium	
Q.24	Name the gas evolved (A) Chlorine	when magnesium reacts (B) Oxygen	with dilute hydrochlorid (C) Hydrogen	c acid. (D) Nitrogen	
Q.25	The metal which is not corroded by air, water and acid is(A) copper(B) zinc(C) aluminium(D) gold			(D) gold	
Q.26	Metals are (A) soft and brittle	(B) hard and solid	(C) liquid	(D) generally liquid	
Q.27	Materials having quali (A) alloys	ities of both metals and n (B) metalloids	on-metals are (C) noble metals	(D) none of these	

Q.28	Which metal reacts re (A) Gold	adily with cold water? (B) Silver	(C) Magnesium	(D) Calcium	
Q.29	The best electrical con (A) gold	nductor is (B) copper	(C) silver	(D) aluminium	
Q.30	Iron is galvanished by (A) chromium	coating it with (B) sodium	(C) magnesium	(D) zinc	
Q.31	Out of these, which of (A) Sodium	ne is more reactive with (B) Magnesium	water? (C) Iron	(D) Copper	
Q.32	Boron is (A) metal	(B) metalloid	(C) non-metal	(D) alkali	
Q.33	A mineral from which (A) ore	n a metal can be extracted (B) metalloid	d on the commercial scale (C) corrosion	e, economically is called (D) metal	
		SECT	'ION-B		
Q.34	Which of the followin (A) Silver	g element is not found in (B) Copper	free state in the nature? (C) Sodium	<b>[NTSE-Stage-IIRaj/2007]</b> (D) Gold	
Q.35	The concentrated ore if subjected to the following process, is called roasting : [NTSE-Stage-IIBihar/2007]				
	<ul> <li>(A) Heated in a furnace alone</li> <li>(B) Heated in a furnace in sufficient supply of air</li> <li>(C) Heated in a furnace with insufficient supply of air</li> <li>(D) Heated with some flux</li> </ul>				
Q.36	The difference between Pig and Wrought iron is as follows : [NTSE-Stage-I/Bihar/2007] (A) Pig iron is pure and Wrought iron is impure (B) Both Pig and Wrought iron are highly impure (C) Both Pig and Wrought iron are pure (D) Pig iron is impure and wrought iron is pure to a large extent				
Q.37					
	(A) Sulphur	(B) Selenium	(C) Silicon	NTSE-Stage-II Delhi/2007] (D) Phosphorus	
Q.38	Epsom salt is (A) CuSO <sub>4</sub>	(B) MgSO <sub>4</sub> ·7H <sub>2</sub> O	[NTS (C) NH <sub>2</sub> CONH <sub>2</sub>	E-Stage-I/Haryana/2007] (D) (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	
Q.39	An ore gives off SO <sub>2</sub> when heated with O <sub>2</sub> This ore is concentrated by -				
	(A) gravity separation method[NTSE-Stage-IIUttrakhan(C) froth flotation method(B) magnetic separation method(D) chemical method				



Q.40 Copper is extracted from the ore copper pyrite by smelting in a blast formed are as given below:			rnace. The flux used and the slag [NTSE-Stage-I/Bihar/2007]	
	(A) Flux CaO, Slag C		(B) Flux SiO <sub>2</sub> , Slag C	
	(C) Flux FeO, Slag F		(D) Flux SiO <sub>2</sub> , Slag H	
Q.41	Aluminium is not ext	the following reason : [NTSE-Stage-I/Bihar/2007]		
	(A) At the temperatur (B) Melting point at A	re ofthe furnace, Al is ox l is very high	kidised by CO <sub>2</sub>	[
	(C) Melting point at A (D) Al reacts with car			
Q.42	mainly consists of -			ned which is used in buildings. It [NTSE-Stage-II112007]
	(A) quartz and haema		(B) quartz and feldsp	
	(C) bauxite and calcar	mine	(D) feldspar and silve	r glance
Q.43	Minerals generally hat (A) They occur natura	ve the following characte	eristics	[NTSE-Stage-II/2007]
	• • •	teristics chemical compo	osition.	
		specific chemical prope		
	(D) They do not have (A) Aand B	a specific chemical com (B) A, C and D	(C) C and D	ollowing statements are correct? (D) Aand D
0.44				
Q.44	which of the followin	ig non-metal is found in	liquid state at room temp	[NTSE-Stage-II/Raj 2008]
	(A) Sulphur	(B) Carbon	(C) Iodine	(D) Bromine
Q.45	Bauxite is an ore of			[NTSE-Stage-II/Bihar 2008]
	(A) boron	(B) aluminium	(C) barium	(D) chromium
Q.46	Copper is purified by (A) Distillation	which method, given be (B) Liquation		[NTSE-Stage-II/Bihar 2008] n (D)Electrolytic refining
Q.47	Rusting of iron is an e		(-)	[NTSE-Stage-I/Bihar 2008]
Q.+/	(A) photochemical rea	-	(B) electrochemical re	
0.40	(C) electrolytic reaction		(D) exothermic reaction	
Q.48	The metal is stored in (A) Sodium	(B) Zinc	(C) Iron	[NTSE-Stage-II/Delhi 2008] (D) Magnesium
Q.49	Which of these is used	d for packing of medicir	nes?	[NTSE-Stage-II/Delhi 2008]
-	(A) Fe	(B)Al	(C) Zn	(D) Mg
Q.50	Which of these is the	hardest?		[NTSE-Stage-II/Delhi 2008]
	(A) Lead	(B) Diamond	(C) Gold	(D) Iron
Q.51		ate hydrogen gas on read		[NTSE-Stage-II/Delhi 2008]
	(A) Mg	(B) Cu	(C)Zn	(D) Na

Q.52	Cryolite is a ore of (A) Chromium	(B) Magnesium	(C) Iron	(D)Aluminium
Q.53	Which metal becomes (A) Fe	black in H <sub>2</sub> S present in (B) Mg	air? [N (C)Ag	TSE-Stage-I/Haryana 2008] (D)Al
Q.54	Alnico is a mixture of (A) Fe,Al, Ni, Co	(B) Fe, Cr, Ni, Co	[NT (C) Al, Ni, Co, Mn	<b>SE-Stage-II/Haryana /2008]</b> (D) Al, Cu, Mn, Mg
Q.55	The colour of sulphur, (A) yellow, yellowish g (C) yellow, yellowish g	-	are respectively. [N (B) red, white, violet (D) yellow, white, viol	TSE-Stage-I/Haryana 2008] let
Q.56	What it the total number (A) 10	er of non -metallic eleme (B) 11	ents? [NTS (C) infinite	<b>E-Stage-II/Gujratl 2007,2008</b> (D) 22
Q.57	Which are the constitu (A) Cu, Zn	ents of alloy bronze? (B) Cu, Ni	[N (C) Cu, Sn	NTSE-Stage-II/Gujratl 2008] (D) Cu, Sn, Ni
Q.58	The most reactive met (A) potassium	al is - (B) gold	(C) zinc	<b>FSE-Stage-I/Himachal 2008</b> (D) copper
Q.59	The first alloy to be dis (A) brass	scovered was (B) duralumin	[N (C) solder	<b>TSE-Stage-I/Himachal 2008</b> (D) bronze
Q.60	The red colour of red s (A) Zinc oxide	soil is due to presence o (B) Magnesium oxide	•	<b>E-Stage-II/Chhatisgarh 2008</b> (D) Iron oxide
Q.61	The percentage of gold (A) 83.33	d present in 20 carat gol (B) 100	d is (C) 50	(D) 73.3
Q.62	Match the following (a) $CH_4$ (b) $CO_2$ (c) $N_2$ (d) $O_2$ Which of the following (A) a,(i); b, (ii); c (iii) (C) a,(ii); b, (iii); c (i)		Combustible Supports combustion Extinguishes fire	
Q.63	<ul> <li>(A) Copper + Sodium</li> <li>(B) Lead + Potassium</li> <li>(C) Iron + Lead nitrate</li> </ul>	g displacement reactions chloride $\longrightarrow$ Copper nitrate $\longrightarrow$ Lead nitrat $e \longrightarrow$ Iron nitrate + Le itrate $\longrightarrow$ Silver nitrat	chloride + Sodium te +Potassium ead	[NTSE-Stage-II/2008]

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Q.64	In which of the follow (A) Rainy season	ing seasons, rusting of ire (B) Spring	on is the fastest ? (C) Summer	[NTSE-Stage-II/Raj./2009] (D) Winter
Q.65	Consider the followin Beaker A : Copper sul Beaker B : Zinc sulph Beaker C : Magnesium Beaker D : Zinc sulph Beaker E : Magnesium According to the cham iron, zinc and magnesi (A) Iron, Copper, Zinc (C) Copper, Iron, Zinc	[NTSE-Stage-II/Raj.12009] the arrangement of metals copper, ternative given. nc, Iron, Copper ron, Magnesium		
Q.66	Baryte is the ore of - (A) Calcium	(B) Iron	(C) Barium	[NTSE-Stage-I/Shiiong/2009] (D) Uranium
Q.67	A non-metal not found (A) oxygen	d in the free state is (B) silicon	(C) nitrogen	[NTSE-Stage-I/Shilong/2009] (D) carbon
Q.68	Rusting of iron occurs (A) nitrogen and dry a (C) nitrogen and mois		[NTS (B) oxygen and dry (D) oxygen and mo	
Q.69	Which are the constitut (A) Fe, Ni	ents of alloy nichrome? (B) Cu, Ni	(C) Fe, Ni, Cr, Mn	[NTSE-Stage-I/Guratl 2011] (D) Ni, Cr, Fe
Q.70	Which element from t (A) Cu	he following does prever (B) Zn	nt the corrosion of iror (C) Ag	n? [NTSE-Stage-I/Gujratl2011] (D) O
Q.71	Which of the following (A) Iron	g metals is found in liquid (B) Sodium	l form ? (C) Mercury	[NTSE-Stage-I/Raj./2011] (D) Lead
Q.72	Water which contains (A) Soft water	soluble salt of calcium ar (B) Heavy water	nd magnesium is know (C) Hard water	wn as : [NTSE-Stage-I/Raj./2011] (D) Mineral water
Q.73	Which among the follo (A) Diamond	owing matter has the high (B) Silver	hest electrical conduc (C) Wood	tivity? [NTSE-Stage-I/Raj.l2011] (D) Graphite
Q.74	What is the proportion (A) 70	n of gold in 18 carat gold (B) 91.7	(C) 83.33	[NTSE-Stage-I/Gujratl2011] (D) None of these
Q.75	The properties of eler (A) metallic	nents with 4, 5, 6 or 7 va (B) non-metallic	lence electrons are- (C) acidic	[NTSE-Stage-I/Kamatka2011] (D) alkaline
Q.76	A copper doll kept in a (A) oxides	a showcase looses its shi (B) hydroxides		of the formation of [NTSE-Stage-I/Karnatka2011] (D) sulphates
Q.77	Fill the blank in the eq			
	$\begin{array}{c} Mg(HCO_3)_2 & \underline{\qquad}\\ (A) MgCO_3 & \end{array}$	$\rightarrowH_2O + CO_2$ (B) Mg <sub>2</sub> CO <sub>3</sub>	(C) Mg	-Stage-II/Andhra pradesh2011] (D) Mg(OH) <sub>2</sub>



<b>CH-2.</b> F	METALS & NON-METALS	,		CHEMISTRY/CLASS-VIII
Q.78	China clay is (A) white	in colour. (B) red	(C) green	[NTSE-Stage-II/Maharastra 2011] (D) black
Q.79	Calcium oxide when (A) calcium hydroxide (C) calcium	dissolved in water forms e	[] (B) calcium nit (D) calcium ca	
Q.80	Pure gold is of (A) 18	(B) 26	(C) 24	[NTSE-Stage-I/Maharashtra 2011] (D) 22
Q.81	The process of depos (A) galvanisation	iting a layer of zinc on ire (B) crystallisation	on is called - (C) ionisation	[NTSE-Stage-I/Punjab 2011] (D) hydration
Q.82	When a copper vessel is a mixture of:	is exposed to moist air fo	or long it acquires	a dull green coating. The green material
	(A) CuSO <sub>4</sub> and CuC (C) CuSO <sub>4</sub> and Cu(C	5	(B) $Cu(OH)_2$ (D) FeCO <sub>3</sub> and	
Q.83	<ul> <li>(1) Copper sulphate (</li> <li>(2) Copper sulphate (</li> <li>(3) Zinc sulphate (Zn</li> </ul>		(Zn) 2) u)	
Q.84	Oxides of non-metals (A) basic	are : (B) acidic	(C) neutral	[NTSE-Stage-I/Delhi 2011] (D) all of these
Q.85		cess in which deposition ticles es		
Q.86	The property of malle (A) Iron	ability is not shown by : (B) Graphite	(C)Aluminium	[NTSE-Stage-II/Delhi 2011] (D) Silver
Q.87	Which metal liberates (A) Cu	hydrogen on reaction wi (B) Mg	ith an alkali ? (C) Al	[NTSE-Stage-ll/Delhi 2011] (D) Fe
Q.88	In bronze exists (A) Cu and Sn	(B) Cu and Zn	(C) Zn and Pb	[NTSE-Stage-II/Bihar 2011] (D) Sn and Pb
Q.89	When Ca reacts with (A) Ca(OCl)Cl	Cl <sub>2</sub> then form (B) CaCl <sub>2</sub>	(C) Ca <sub>3</sub> N <sub>2</sub>	[NTSE-Stage-II/Bihar 2011] (D) None of these
Q.90	In which ore oxygen i (A) Iron pyrite	s not contained? (B) Haematite	(C) Lime stone	[NTSE-Stage-I/Bihar 2011] (D) Bauxite