JEE MAIN : CHAPTER WISE TEST PAPER-8					
SUBJECT :- CHEMISTRY CLASS :- 11 th			DATE NAME		
CHAPTER :- REDOX REACTION			SECTION		
(SECTION-A)					
1.	Which of the following acts as both oxidant and	7.	In acting as a reducing agent, a piece of metal		
	reductant ?		M weighing 16 g gives up 2.25×10^{23} electrons,		
	$(B) HNO_2$		(A) 42 83 (B) 21 33 (C) 83 32 (D) 32		
	(C) Both $HNO_3 \& HNO_2$				
	(D) Neither HNO_3 nor HNO_2	8.	Which one of the following is a redox reaction? (A) $H + Br \rightarrow 2HBr$		
2.	State which of the following reactions is neither		(B) $2NaCl + H_2SO_4 \rightarrow Na_2SO_4 + 2HCl$		
	nor reduction ?		(C) HCl + AgNO ₃ \rightarrow AgCl + HNO ₃ (D) NaOH + HCl \rightarrow NaCl + H O		
	(A) Na \rightarrow NaOH		(D) Nuclei field Nuclei field		
	(B) $\operatorname{Cl}_2 \to \operatorname{Cl}^- + \operatorname{ClO}_3^-$	9.	According to classical concept, oxidation		
	$(C) P_2 O_5 \rightarrow H_4 P_2 O_7$		(A) Addition of oxygen		
	$(D) 2n + H_2SO_4 \rightarrow 2nSO_4 + H_2$		(B) Addition of electronegative element		
3.	In the reaction		(C)Removal of either hydrogen or some		
	$C_2O_4^{-2} + MnO_4^- + H^+ \rightarrow Mn^{+2} + CO_2$		(D) All of these		
	the reductants is –				
	(A) $C_2 O_4^{-2}$ (B) H^+	10.	In the reaction		
	(C) MnO_4^- (D) None of the above		$MnO_4^- + SO_3^{2-} + H^* \longrightarrow SO_4^{2-} + Mn^{2+} + H_2O$ (A) MnO - and H ⁺ both are reduced		
			(B) MnO_4^- is reduced and H ⁺ is oxidised		
4.	The order of increasing O.N. of S in		(C) MnO_4^{-} is reduced and SO_3^{2-} is oxidised		
	$S_8, S_2O_8^{-2}, S_2O_3^{-2}, S_4O_6^{-2}$ is given below –		(D) MnO_4^{-1} is oxidised and SO_3^{2-1} is reduced		
	(A) $S_8 < S_2 O_8^{-2} < S_2 O_3^{-2} < S_4 O_6^{-2}$	11.	The compound in which oxidation state of metal		
	(B) $S_2O_8^{-2} < S_2O_3^{-2} < S_4O_6^{-2} < S_8$		is zero- (A) Fe ₂ (CO) ₂ (B) Ni (CO).		
	(C) $S_2O_8^{-2} < S_8 < S_4O_6^{-2} < S_2O_3^{-2}$		$(C) \operatorname{Fe}_{3}(CO)_{9} \qquad (D) \operatorname{All the above}$		
	(D) $S_8 < S_2 O_3^{-2} < S_4 O_6^{-2} < S_2 O_8^{-2}$	12.	Which of the following is a disproportionation		
5.	In the redox reaction –		reaction?		
	$10\text{FeC}_2\text{O}_4 + \text{x KMnO}_4 + 24\text{H}_2\text{SO}_4 \rightarrow$		(A) $Cu_2O + 2H^+ \rightarrow Cu + Cu^{2+} + H_2O$ (B) $2CrO -^2 + 2H^+ \rightarrow CrO -^2 + H_2O$		
	$5Fe_2(SO_4)_3 + 20CO_2 + y MnSO_4 + 3 K_2SO_4 + 0$		(C) CaCO ₂ + 2H ⁺ \rightarrow Ca ²⁺ + H ₂ O + CO ₂		
	$24H_2O$.		(D) $\operatorname{Cr}_{2}O_{7}^{-2} + 2OH^{-} \rightarrow 2\operatorname{Cr}O_{4}^{-2} + H_{2}O$		
	(A) 6, 3 (B) 3, 6	40	In the charge strengthere		
	(C) 3, 3 (D) 6, 6	13.	In the chemical reaction, K Cr O + XH SO + YSO		
c	Which of the following is correctly helenced helf		$\rightarrow K_2 SO_4 + Cr_2(SO_4)_3 + ZH_2O$		
0.	reaction ?		X, Y and Z are –		
	(A) $AsO_3^{-3} + H_2O \rightarrow AsO_4^{-3} + 2H^+ - 2e^-$		(A) 1, 3, 1 (B) 4, 1, 4 (C) 3, 2, 3 (D) 2, 1, 2		
	(B) $H_2O_2 + 2e^- \rightarrow O_2 + 2H^+$				
	(C) $Cr_2O_7^{-2} + 14H^+ \rightarrow 2Cr^{+3} + 7H_2O - 6e^-$	14.	$Cu + X \longrightarrow Cu(NO_3)_2 + 2H_2O + 2NO_2$. Here X is-		
	(D) $IO_{3}^{-} + 6H^{+} \rightarrow I_{2} + 3H_{2}O + 5e^{-}$		(C) $4HNO_2$ (D) $6HNO_3$		
			PG #1		

15.	Which of the following equations is a balanced one?	18.	In which of the following reaction (s) H_2SO_4 act as an oxidising agent and as well as acid?		
	(A) $5BiO_{2}^{-} + 22H^{+} + Mn^{2+} \rightarrow 5Bi^{3+} + 7H_{2}O + MnO_{4}^{-}$		(A) C H O $H_2SO_4 \times 12C + 11H O$		
	(B) $5BiO_{2}^{-} + 14H^{+} + Mn^{2+} \rightarrow 5Bi^{3+} + 7H_{2}O + 2MnO_{4}^{-}$		(B) S + 2H ₂ SO ₄ \longrightarrow 3SO ₂ + 2H ₂ O		
	(C) $2 \operatorname{BiO}^{-} + 4 \operatorname{H}^{+} + \operatorname{Mn}^{2+} \rightarrow 2 \operatorname{Bi}^{3+} + 2 \operatorname{H} \operatorname{O} + \operatorname{MnO}^{-}$		$(C) Cu + 2H_2SO_4 \longrightarrow CuSO_4 + SO_2 + 2H_2O$		
	(D) $6BiO^{-} + 12H^{+} + 3Mn^{2+} \rightarrow 6Bi^{3+} + 6HO + 3MnO^{-}$		(D) All of the above		
	(\mathbf{D}) \mathbf{O}	19.	In a reaction $H_2O + C \longrightarrow CO + H_2$		
16.	What is the equivalent weight of NH3 in the given		(A) H_2O is the reducing agent		
	reaction? $3CuO + 2NH \rightarrow 3Cu + N + 3H O$		(B) H_2O is the oxidising agent (C) Carbon is the oxidising agent		
	$17 \qquad 17 \qquad 17 \qquad 17$		(D) Oxidation-reaction does not occurs		
	(A) 17 (B) $\frac{17}{4}$ (C) $\frac{17}{2}$ (D) $\frac{17}{3}$				
		20.	The reaction, $3CIO^{-}(aq) \rightarrow CIO_{3}^{-}(aq) + 2CI^{-}(aq)$		
17.	The mass of gas obtained when 1.5×10^{-3} moles of MnO - oxidised 1.2 mg of H O in acidic		is an example of -		
	medium is-		(B) reduction reaction		
	(A) 2.2 mg (B) 1.12 mg		(C) disproportionation reaction		
	(C) 3.2 mg (D) 0.56 mg		(D) decomposition reaction		
(SECTION-B)					
21.	The oxidation number of S in $H_2S_2O_8$ is –	26.	Oxidation number of Ni in $Ni(CO)_4$ is-		
22.	In the reaction AI + Fe ₃ O ₄ \rightarrow AI ₂ O ₃ + Fe – what is the total no. of electrons transferred	27.	The oxidation number of nitrogen in NH_2OH is-		
	during the change ?	28.	Equivalent weight of oxidising agent will be-		
23.	What weight of HNO is needed to convert 62 g		$2H_2 + O_2 \rightarrow 2H_2O$		
-	of P_4 in H_3PO_4 in the reaction ?	29.	Calculate the equilibrium constant at 25°C for		
	$P_4 + HNO_3 \longrightarrow H_3PO_4 + NO_2 + H_2O_3$		the disproportionation of 3 mol aqueous HNO ₂		
24	The equivalent weight of an element is 9. If it		to yield gaseous NO and aqueous NO_3^- . The		
24.	forms volatile chloride of vapour density 58.5.		Standard potential for the reduction of HNO_2 to NO is 0.99 V that for reduction of NO_2^- to HNO_2^-		
	What is the approximate at wt. of the element?		is 0.94 V.		
25.	The oxidation number of phosphorus in $Ba(H_2PO_2)_2$ is-	30.	The charge on cobalt in $[Co(CN)_6]^{3-}$ is -		