Nam	me.	8409 - 1 - Pa	ge
1)	Oxidation-reduction reactions occur because of the competition between page 1	articles for	
'/	A) electrons B) positrons C) protons		5
2)	Which quantities are conserved in all oxidation-reduction reactions?		
	A) both charge and mass C) mass, c B) neither charge nor mass D) charge,		
3)	In the reaction $Zn^0 + Cu^{2+} \longrightarrow Zn^{2+} + Cu^0$, which species is oxidized?		
	A) Cu ⁰ B) Cu ²⁺ C) Zn ²⁺	D) Zn ⁰	
4)	Which change occurs when an Sn ²⁺ ion is oxidized?		
,	A) Two electrons are gained. C) Two pro	otons are gained. otons are lost.	
5)	Which half-reaction correctly represents a reduction reaction?		
	A) $Na^0 + e^- \longrightarrow Na^+$ C) $Sn^0 + 2$?e> Sn ²⁺	
	B) $Li^0 + e^- \longrightarrow Li^+$ D) $Br2^0 +$	2e⁻	
6)	In the reaction $Zn + Fe^{2+} \longrightarrow Zn^{2+} + Fe$, the reducing agent is		
: :	A) Zn ²⁺ B) Fe C) Zn	D) Fe2+	
7)	In the reaction $2Fe^{3+} + S^{2-} \longrightarrow 2Fe^{2+} + S^{0}$, the species oxidized is		
,	A) Fe ²⁺ B) S ⁰ C) S ²⁻	D) Fe ³⁺	
8)	Given the reaction:		
	$3Aa + Au^{3+} \longrightarrow 3Aa^{+} + Au$		1
	Which equation correctly represents the oxidation half-reaction? A) $Au^{3+} \longrightarrow Au + 3e^{-}$ C) $3Ag + 3e^{-}$	3e ⁻ → 3Ag ⁺	
	The state of the s	3e ⁻ → Au	
	2) 3.1g 3.7g		
9)	In the reaction $Cu + 2Ag^+ \longrightarrow Cu^{2+} + 2Ag$, the oxidizing agent is	D) Cu2+	
	A) Cu B) Ag C) Ag^+	D) Ca2	
10)) Given the reaction:		
	$MnO_2(s) + 4H^+(aq) + 2Fe^{2+}(aq) \longrightarrow Mn^{2+}(aq) + 2Fe^{3+}(aq) + 2H_2O(1)$)	
	Which species is oxidized?		
	A) $MnO_2(s)$ B) $H^+(aq)$ C) $H_2O(\ell)$	D) Fe ²⁺ (aq)	
11)) Which half-cell reaction correctly represents oxidation?		
	A) $Pb^{2+} + 2e^- \longrightarrow Pb$ C) $Pb \longrightarrow$	Pb2+ + 2e-	
	B) $Pb + 2e^- \longrightarrow Pb^{2+}$ D) $Pb^{2+} =$	→ Pb + 2e ⁻	
12)) Which half-reaction correctly represents reduction?		
	A) $Ca^+ \longrightarrow Ca + 2e^-$ C) $2F^- \longrightarrow$	→ F ₂ + 2e ⁻	
	B) $Ca^{2+} + 2e^{-} \longrightarrow Ca$ D) $2F^{-} + 2e^{-} \longrightarrow Ca$	e⁻ — F ₂	