





Date Planned : __ / __ / __	Daily Tutorial Sheet-8	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

96. Maximum oxidation state is present in :
 (A) CrO_2Cl_2 and MnO_4^- (B) MnO_2
 (C) $[\text{Fe}(\text{CN})_6]^{3-}$ and $[\text{Co}(\text{CN})_6]^{3-}$ (D) MnO
97. Which of the following will not be oxidised by O_3 ?
 (A) KI (B) FeSO_4 (C) KMnO_4 (D) K_2MnO_4
98. The pair of the compounds in which both the metals are in the same oxidation state is :
 (A) Na_4XeO_6 , OsO_4 (B) CrO_2Cl_2 , MnO_4^{2-}
 (C) TiO_3 , CrO_3 (D) Cl_2O_7 , Mn_2O_7
99. Consider a titration of potassium dichromate solution with acidified ferrous oxalate solution using diphenylamine as indicator. The number of moles of ferrous oxalate required per mole of dichromate is :
 (A) 3 (B) 4 (C) 5 (D) 2 
- *100. For the reaction $\text{I}^- + \text{ClO}_3^- + \text{H}_2\text{SO}_4 \longrightarrow \text{Cl}^- + \text{HSO}_4^- + \text{I}_2$. The correct statement(s) in the balanced reaction is/are :
 (A) Stoichiometric coefficient of HSO_4^- is 6 (B) Iodide is oxidized
 (C) Sulphur is reduced (D) H_2O is one of the products
101. The weight of sodium bromate required to prepare 85.5 mL of 0.672 N solution for cell reaction, $\text{BrO}_3^- + 6\text{H}^+ + 6\text{e}^- \longrightarrow \text{Br}^- + 3\text{H}_2\text{O}$, is : 
 (A) 1.56 gm (B) 1.45 gm (C) 1.23 gm (D) 1.32 gm
102. NaIO_3 reacts with NaHSO_3 according to equation $\text{IO}_3^- + 3\text{HSO}_3^- \longrightarrow \text{I}^- + 3\text{H}^+ + 3\text{SO}_4^{2-}$. The weight of NaHSO_3 required to react with 100 mL of solution containing 0.58 gm of NaIO_3 is :
 (A) 5.2 gm (B) 4.57 gm (C) 2.3 gm (D) None of the above
103. If 0.5 moles of BaCl_2 is mixed with 0.2 moles of Na_3PO_4 , the maximum amount of $\text{Ba}_3(\text{PO}_4)_2$ that can be formed is :
 (A) 0.7 mol (B) 0.5 mol (C) 0.2 mol (D) 0.1 mol
104. 0.52 g of a dibasic acid required 100 mL of 0.1N NaOH for complete neutralization. The equivalent weight of acid is : 
 (A) 26 (B) 52 (C) 104 (D) 156
105. 34 g of hydrogen peroxide is present in 1120 mL of solution: This solution is called : 
 (A) 10 volume (B) 20 volume (C) 30 volume (D) 32 volume