



Date Planned : __ / __ / __	Daily Tutorial Sheet-6	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

76. Among H_2O , H_2S , H_2Se and H_2Te , the one with the highest boiling point is :
 (A) H_2O because of hydrogen bonding (B) H_2Te because of high molecular weight
 (C) H_2S because of hydrogen bonding (D) H_2Se because of lower molecular weight
77. One gas bleaches the colour of flowers by reduction, while the other by oxidation, the two gases respectively are : 
 (A) CO and Cl_2 (B) H_2S and Br_2 (C) NH_3 and SO_3 (D) SO_2 and Cl_2
78. Aqueous solution of $\text{Na}_2\text{S}_2\text{O}_3$ on reaction with I_2 gives :
 (A) $\text{Na}_2\text{S}_4\text{O}_6$ (B) NaHSO_4 (C) NaCl (D) NaOH
79. The correct statement regarding perxenate ion (XeO_6^{4-}) is :
 (A) It is polar species (B) It is a planar species
 (C) 'Xe - O' bond order is 1.33
 (D) Molecular ion has only one type of bond angle
80. Which of the following halides cannot be hydrolysed at room temperature?
 (I) TeF_6 (II) SF_6 (III) NCl_3 (IV) NF_3
 Choose the correct code:
 (A) III and IV (B) I, II and III (C) I, II and IV (D) II and IV
81. Which of the following statements is incorrect ?
 (A) Production of oxygen from potassium chlorate is catalyzed by MnO_2
 (B) SiO_2 is a basic oxide
 (C) H_2O_2 is more hydrogen bonded than H_2O
 (D) On heating α - sulphur, β - sulphur is obtained
82. Among the following gases how many are colourless :
 $\text{O}_2(\text{g})$, $\text{F}_2(\text{g})$, $\text{ClO}_2(\text{g})$, $\text{O}_3(\text{g})$, $\text{H}_2\text{O}(\text{g})$, $\text{H}_2\text{S}(\text{g})$, $\text{NO}_2(\text{g})$, $\text{SO}_2(\text{g})$
 (A) 5 (B) 4 (C) 3 (D) 2
83. Which of the following is incorrect about the contact process ?
 (A) In the oxidation of SO_2 to SO_3 , Fe is used as the catalyst
 (B) Earlier Pt gauze was used to catalyse oxidation of SO_2 to SO_3
 (C) Oxidation of SO_2 to SO_3 is favoured by high pressure
 (D) SO_3 is first converted to oleum instead of H_2SO_4 directly
84. $\text{Ca} + \text{C} \xrightarrow{\Delta} \text{CaC}_2 \xrightarrow{\text{N}_2} \text{A}$
 Compound (A) is used as a/an :
 (A) fertilizer (B) dehydrating agent
 (C) oxidising agent (D) reducing agent
85. The interhalogen having dimeric structure is : 
 (A) ClF_3 (B) BrF_3 (C) IF_3 (D) ICl_3