Date Planned : __ / __ / __	Daily Tutorial Sheet-7	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration :_____

86. $Cl_2 + H_2O \xrightarrow[\text{(hot)}]{} HCl + A$. Which of the following statements is correct regarding A ?

(A) It consists of sp^2 hybridized Cl **(B)** It is the most stable oxyacid of Cl

(C) Salts of A are used as disinfectant **(D)** Salts of A are used in fireworks

87. XeF_6 dissolves in anhydrous HF to give a good conducting solution which contains :

(A) H^+ and XeF_7^- ion **(B)** HF_2^- and XeF_5^+ ions

(C) $HXeF_6^+$ and F^- ions **(D)** None of these

88. When I^- is oxidized by $KMnO_4$ in alkaline medium, I^- converts into :

(A) IO_3^- **(B)** I_2 **(C)** IO_4^- **(D)** IO^-

89. Which of the following unbalanced reactions is correct in terms of product formed ?

(A) $XeF_4(s) + H_2O \longrightarrow Xe + HF + XeO_3$ **(B)** $XeF_6(s) + H_2O \longrightarrow HF + XeO_3$

(C) $XeF_2(s) + H_2O \longrightarrow Xe + HF + XeO_3$ **(D)** $XeF_2(s) + H_2O \longrightarrow HF + XeO_3$

90. A considerable part of the harmful UV rays of the sun does not reach the surface of the earth. This is because high above the earth's atmosphere, there is a layer of :

(A) O_3 **(B)** CO_2 **(C)** SO_2 **(D)** NO

91. The oxide that gives H_2O_2 on treatment with a dilute acid is :

(A) PbO_2 **(B)** Na_2O_2 **(C)** MnO_2 **(D)** TiO_2

92. Ozone is used for purifying water because :

(A) It dissociates and release oxygen

(B) It does not leave any foul smell like chlorine

(C) It kills bacteria, cyst, fungi and acts as a biocide

(D) All of these

93. The dipole moment of H_2O_2 is more than that of H_2O but H_2O_2 is not a good solvent because :

(A) It has very high dielectric constant so that ionic compounds cannot be dissolved in it

(B) It does act as an oxidizing agent

(C) It acts as a reducing agent

(D) It dissociates easily and acts as an oxidizing agent in chemical reactions

94. Match the Column:

Column-I (Compound)		**Column-II** (Property)	
(A)	NO_2	**(p)**	Diamagnetic
(B)	NO	**(q)**	Paramagnetic
(C)	N_2O_3	**(r)**	Coloured
(D)	Cl_2	**(s)**	Oxidising agent

95. Three allotropes (A), (B) and (C) of phosphorous in the following change are respectively :

(A) white, black, red

(B) black, white, red

(C) red, black, white

(D) red, violet, black