

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

86.	$Cl_2 + H_2O \longrightarrow HCl + A.$	Which of the following statements	is correct regarding A?
	(hot)		

(A) It consists of sp² 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. XeF₆ dissolves in anhydrous HF to give a good conducting solution which contains :

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(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

(B)

(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) O₃

(B)

(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

 CO_2

 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	(p)	Paramagnetic
(C)	N_2O_3	(r)	Coloured
(D)	Cl_2	(s)	Oxidising agent

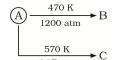
95. Three allotropes (A), (B) and (C) of phosphorous in the following change are respectively:

(A) white, black, red

(B) black, white, red

(C) red, black, white

(D) red, violet, black



 CO_2^- atm