

Date Planned : / /	Daily Tutorial Sheet-5	Expected Duration : 90 Min		
Actual Date of Attempt ://	JEE Advanced (Archive)	Exact Duration :		

61.	What happens when sulphur is precipitated in the reaction of hydrogen sulphide with sodium bi solution?											
62.	Complete and balance the chemical reaction : Red phosphorus is reacted with iodine in presence of water. $P+I_2+H_2O\to\dots\dots+\dots+\dots$									(1992)		
<b>63</b> .	Give r	(1992)										
64.	Comp	(1993)										
<b>65</b> .	The n	The major role of fluorspar ( $CaF_2$ ), which is added in small quantities in the electrolytic reduction of										
	alumina dissolved in fused cryolite ( $Na_3AlF_6$ ), is:									(1993)		
	<ul> <li>(A) as a catalyst</li> <li>(B) to make the fused mixture very conducting</li> <li>(C) to lower the temperature of the melt</li> <li>(D) to decrease the rate of oxidation of carbon at the anode</li> </ul>											
66.	The material used in the solar cells contains:									(1993)		
	(A)	Cs	<b>(B)</b>	Si		(C)	Sn	(D)	Ti			
67.	<ul> <li>Statement-1: Although PF<sub>5</sub>, PCl<sub>5</sub> and PBr<sub>5</sub> are known, the pentahalides of nitrogen have not been observed.</li> <li>Statemant-2: Phosphorus has lower electronegativity than nitrogen. (1994)</li> <li>(A) Statement-1 is True, Statement-2 is True; Statement-2 is a correct explanation for Statement-1</li> <li>(B) Statement-1 is True, Statement-2 is True; Statement-2 is NOT a correct explanation for Statement-1</li> <li>(C) Statement-1 is True, Statement-2 is False</li> <li>(D) Statement-1 is False, Statement-2 is True</li> </ul>											
68.										(1995)		
	(A) (C)	reacts slo	wly with Nai Br	Br		(B) (D)	oxidise disproj	es HBr portionates H	Br			
69.	In P <sub>4</sub> 0	In $P_4O_{10}$ each P-atom is linked with O-atom. (1995)										
	(A)	2	(B)	3		(C)	4	(D)	5			
70.	Give reaction : the experimentally determined $N-F$ bond length in $NF_3$ is greater than the su single bond covalent radii of $N$ and $F$ .									(1995)		
71.		Given reason: $Mg_3N_2$ when reacted with water gives off $NH_3$ but HCl is not obtained from $MgCl_2$ on										
	reaction	reaction with water at room temperature. (1995)										
<b>72</b> .	Give reason : $(SiH_3)_3N$ is a weaker base than $(CH_3)_3N$ .									<b>(</b> 1995)		



**73.** KF combines with HF to form  $KHF_2$ . The compound contain the species: (1996)

(A)  $K^+, F^- \text{ and } H^+$ 

**(B)**  $K^+$ ,  $F^-$  and HF

(C)  $K^+$  and  $[HF_2]^-$ 

**(D)**  $[KHF]^-$  and  $F^-$ 

**74.** Which of the following statements is correct for  $CsBr_3$ ?

(1996)

(A) It is covalent compound

**(B)** It contains  $Cs^{3+}$  and  $Br^{-}$  ions

(C) It contains  $Cs^+$  and  $Br_3^-$  ions

(D) It contains  $Cs^+$ ,  $Br^-$  and lattice  $Br_2$  molecule

**75.** Hydrolysis of one mole of peroxodisulphuric acid produces :

(1996)

(A) two moles of sulphuric acid

**(B)** two moles of peroxomonosulphuric acid

 $\textbf{(C)} \qquad \text{one mole of sulphuric acid, one mole of peroxomonosulphuric acid} \\$ 

(D) one mole of sulphuric acid, one mole of peroxomonosulphuric acid and one mole of hydrogen peroxide