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<b>—</b> 71.	If the intermolecular distance between two hydrogen atoms in $H_2$ molecule is 74 pm, then the			
	covalent radius of l	nydrogen is		
	(1) 37 pm	(2) 0.47 $\overset{\circ}{A}$	(3) 74 pm	(4) 74 $\overset{\circ}{A}$
72.	Ionic radii vary in			11
	(1) inverse proportion to the effective nuclear charge			
	(2) inverse proportion to the square of effective nuclear charge			
	(3) inverse proportion to the screening effect			
	(4) direct proportion to the square of the screening effect			
73.	Which of the following set species contain only isoelectronic ions?			
	(1) $Zn^{2+}, Ca^{2+}, Ga^{3+}$	$^{-}, Al^{3+}$	(2) $K^+, Ca^{2+}, Sc^{2+}, Cl^{2+}$	-
	(3) $P^{3-}, S^{2-}, Cl^{-}, K^{+}$	÷	(4) $Tl^{4+}, Ar, Cr^{3+}, V^{5+}$	
74.	The first ionisation potential of Na, Mg, Al and Si are in the order			
	(1) Na < Mg > Al <	Si	(2) Na > Mg > Al < Si	i
	(3) Na < Mg < Al >	Si	(4) Na < Mg < Al < S	i
75.	. The ionisation energy of nitrogen is more than oxygen because of			
	(1) more attraction	of electrons by the nucle	us	
	(2) the extra stabilit	ty of half filled p-orbitals	;	
	(3) the ionic radius of nitrogen atom is smaller			
	(4) All of the above	are correct		
76.	The order of screening effect of electrons of $s$ , $p$ , $d$ and $f$ – orbitals of a given shell of an atom on its outer shell electrons is			
	(1) $s > p > d > f$	(2) $f > d > p > s$	(3) $p < d < s < f$	(4) $f > p > s > d$
77.				
	negative sign ) of the given atomic species?			
	8 8 1	о I	(3) S < O < Cl < F	(4) $F < Cl < O < S$
78.	Which of the following is amphoteric in nature ?			
	(1) $Al_2O_3, Cl_2O_7$	(2) $Al_2O_3$	(3) $As_2O_3$	(4) Both (2) and (3)
79.	A metal ion with +3 charge has five electrons in the 3d-subshell, the metal is			
	(1) Fe	(2) Cr	(3) Mn	(4) zn
80.	Elements X and Y have valence shell electronic configuration as			
	$X = ns^2 np^4,  Y = ns^1$			
	Which compound is likely to be formed from X and Y?			
	(1) $X_2 Y_5$	(2) $XY_2$	(3) $X_2 Y$	(4) $X_2 Y_2$

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