

Date	Planne	ed: _/_/_		Daily T	Daily Tutorial Sheet - 6			Expected Duration : 90 Min		
Actu	al Date	of Attempt :	/_/_		Level - 2		Exact Duration :			
76 .	Which of the following has a geometry different from the other three species (having the same geometry)?									
	(A)	BF_4^-	(B)	SO_4^{2-}	(C)	XeF_4	(D)	PH_4^+	\odot	
77.	Among the following, the species which has the lowest value of bond angle is :								\odot	
	(A)	NO_2^-	(B)	NO_2	(C)	NO_2^+	(D)	N_2O		
78.	In wh	ich of the followin	g pairs d	lo the molecules	have ide	entical shapes ?	•		\odot	
	(A)	SO_2 and SO_3			(B)	SnCl_2 and O_3				
	(C)	SnCl ₄ and XeF	4		(D)	${\rm XeO_3}$ and ${\rm I_3^-}$				
79.	Which of the following species is planar and has a bond angle very close to 120°?								\odot	
	(A)	BF_3	(B)	NO_3^-	(C)	CO_3^{2-}	(D)	All of these		
80.	Which	Which of the following pairs of species have identical structures and shapes?								
	(A)	NO_2^+ and NO_2^-	(B)	PCl_5 and BrF_5	(C)	XeF ₄ and ICl	(D)	$\mathrm{XeF_4}$ and $\mathrm{XeO_4}$		
81.	In wh	In which of the following molecules would you expect the nitrogen-to-nitrogen bond to be the shortest?								
	(A)	$\mathrm{N_2H_4}$	(B)	${\rm N_2}$	(C)	$\mathrm{N_2O_4}$	(D)	$\mathrm{N_2O}$	\odot	
*82.	Which of the following is(are) correct statements(s)?								\odot	
	(A)	(A) The bond present in NaCl are non-directional								
	(B)	(B) The bond angle of I_3^- is more than H_2O								
	(C) The bond present in NaCl are directional									
	(D) The bond present in NaCl are stronger than bond in \ensuremath{CCl}_4									
*83.	Which of the following have sp ³ d hybridization?								\odot	
	(A)	SF_4	(B)	BrCl_3	(C)	XeOF_2	(D)	BrF_3		
*84.	Which of the following molecule have two lone pairs of electrons on central atom?								\odot	
	(A)	F_2O	(B)	ClF_3	(C)	XeF_4	(D)	SF_4		
85.	Which	one of the follow	_	correct set?					\odot	
	(A)	H ₂ O, sp ³ , angul	lar		(B)	$\mathrm{BCl}_3\ \mathrm{sp}^3$, angular				
	(C)	NH_{4}^{+} , dsp^{2} , sq	ıare plar	nar	(D)	$\mathrm{CH_4}$, dsp^2 , tetrahedral				