

Date	Date Planned ://				Daily Tutorial Sheet - 2			Expected Duration : 90 Min		
Actual Date of Attempt : / /					Level - 1			Exact Duration :		
16.	In which of the following compounds are the bond angles close to 90°?									
	(A)	PH_3	(B)	SF_6	(C)	H_2S	(D)	All of these		
17.	Which of the following species is isoelectronic with ${\rm CO}_2$?									
	(A)	N_3^-	(B)	CNO^-	(C)	NCN^{2-}	(D)	All of these		
18.	The shape of NH_2^- is like that of:									
	(A)	CS_2	(B)	SnCl_2	(C)	NO_2^+	(D)	BeCl_2		
19.	The b	The benzene molecule contains :								
	(A) 6σ bonds and 3π bonds			5	(B)	12σ bonds and 3π bonds				
	(C) 6σ bonds and 6π bonds			s	(D)	9σ bonds and 3π bonds				
20.	Which	of the following	g ions has	an (18 + 2)	electronic co	onfiguration ?				
	(A)	Cu^+	(B)	Fe^{3+}	(C)	Pb ²⁺	(D)	Xe^{2+}		
21.	Which	of the following	g ions has	a pseudo-ir	ert-gas conf	iguration?			\odot	
	(A)	Zn^{2+}	(B)	Cu^+	(C)	Ag^+	(D)	All of these		
22 .	Which of the following elements can form both ionic and covalent bonds?									
	(A)	Argon	(B)	Hydrogen	(C)	Iron	(D)	Neon		
23.	The to	The total number of covalent bonds present in the NO_2^+ ion is :								
	(A)	three	(B)	two	(C)	four	(D)	six		
24.	Which	Which set contains no ionic species?								
	(A) NH_4Cl, OF_2, H_2S				(B)	CO ₂ , CCl ₄ , Cl	$\mathrm{CO}_2,\mathrm{CCl}_4,\mathrm{Cl}_2$			
	(C)	BF ₃ , AlF ₃ , TlF	3		(D)	I ₂ , CaO, CH ₃ O	C1			
25 .	Which of the following has zero dipole moment?									
	(A)	CO	(B)	SO_2	(C)	SO_3	(D)	H_2O		
26.	. Which are non-polar molecules?									
	I.	NCl_3	II.	SO_3	III.	PCl_5				
		orrect option is								
	(A)	I only	(B)	II only	(C)	I and II only	(D)	II and III only		
27 .		of the following	9		•	J 1	d=- *			
	(A)	Na ⁺	(B)	Ca ²⁺	(C)	Mg^{2+}	(D)	Al ³⁺		
28.		e following mole	_	-			(T)	71 10		
	(A)	BCl_3	(B)	CH_2Cl_2	(C)	NH_3	(D)	FNO		
29 .		Which of the following has the highest percentage of ionic character in its bonding?								
00	(A)	LiI	(B)	MgCl ₂	(C)	CsF	(D)	CsI		
30.		n of the following HCl	•		•		(12)	NO		
	(A)	псі	(B)	CO_2	(C)	NH_3	(D)	NO_2		