

Expected Duration: 90 Min

Actual Date of Attempt ://				JEE Ad	JEE Advanced (Archive)			Exact Duration :		
16.	On hy	bridization of o	ne s and one	<i>p</i> -orbital we	get				(1984)	
	(A)	(A) two mutually perpendicular orbit				two orbitals at 180°				
	(C)	(C) four orbitals directed tetrahe			(D)	three orbitals in a plane				
17.	SnCl	SnCl_2 is a non-linear molecule.								
18.	The h	The hybridization of sulphur in sulphur dioxide is:								
	(A)	sp	(B) s	sp^3	(C)	sp^2	(D)	dsp^2		
*19.	CO_2 is isostructural with								(1986)	
	(A)	HgCl_2	(B)	C_2H_2	(C)	SnCl_2	(D)	NO_2		
20.	The bond between two identical non-metal atoms has a pair of electrons								(1986)	
	(A) unequally shared between the two									
	(B) transferred fully from one atom to another(C) with identical spins									
	(D)	-								
21.	sp^3 hybrid orbitals have equal s and p character.								(1987)	
22 .	In benzene, carbon uses all the three p -orbitals for hybridisation. (1)								(1987)	
23.	The C	$ \label{eq:cl-cl-cl} The \ \ Cl-C-Cl \ angle \ in \ 1, \ 1, \ 2, \ 2-tetrachloroethene \ and \ tetrachloromethane \ respectively \ will \ be \ about$								
	(A)	(A) 120° and 109.5°				90° and 109.5° (1988				
	(C)	109° and 90°			(D)	109.5° and 120°				
24.	The n	nolecule that ha	s linear struc	cture is:					(1988)	
	(A)	CO_2	(B)	NO_2	(C)	SO_2	(D)	SiO_2		
25 .	The s	The species in which the central atom uses $\ {\rm sp}^2$ – hybrid orbitals in its bonding is:								
	(A)	PH_3	(B)	NH_3	(C)	CH_3^+	(D)	SbH_3		
26.	The n	nolecule which l	nas pyramida	al shape is:					(1989)	
	(A)	PCl_3	(B) S	SO ₃	(C)	CO_3^{2-}	(D)	NO_3^-	\odot	
27 .	Which of the following is paramagnetic?								(1989)	
	(A)	O_2^-	(B)	CN ⁻	(C)	СО	(D)	NO^+		
28.	The m	The molecule which has zero dipole moment is:								
	(A)	$\mathrm{CH_2Cl_2}$	(B) I	BF ₃	(C)	NF_3	(D)	${\rm ClO}_2$	\odot	
29.	The v	The valence atomic orbitals on C in silver acetylide is hybridized.								
30.	Betwe	Between Na ⁺ and Ag ⁺ , which is stronger Lewis acid and why?								
		Between Na ⁺ and Ag ⁺ , which is stronger Lewis acid and why? (1990)								

Daily Tutorial Sheet - 2

Date Planned: __/__/_