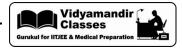


Date Planned ://					Daily	y Tutorial	Sheet - 1	Expected Duration : 90 Min			
Actual Date of Attempt : / /					Level - 1			Exact Duration :			
1.	The oc	tet rule is not ol	oeyed in	:							
	(A)	CO_2	(B)	Zn	2+	(C)	${\rm SiCl}_4$	(D)	CO		
2.	Which	of the following	compou	nds i	s is expected to be the most ionic?					\odot	
	(A)	PbCl_2	(B) Ph		Cl_4	(C)	CCl_4	(D)	${\rm SiCl}_4$		
3.	Which	h of the following pairs can form a compound with the maximum ionic character?									
	(A)	Na and Cl	(B)	Cs	and F	(C)	Cs and I	(D)	Na and F		
4.	Which	of the following	molecul	es is	formed wi	thout follo	_	rule ?			
	(A)	BeCl_2	(B)	IF ₇		(C)	SF_6	(D)	All of these		
5 .	During the formation of an ionic bond, the cation may achieve :										
	(A) $ns^2 \text{ or } ns^2 np^6 \text{ configuration}$			uratio	n	(B)	pseudo noble	do noble – gas – configuration			
	(C)	inert-pair configuration				(D)	All of these c	configurations			
6.	A pure	covalent bond i	s forme	d betv	veen :						
	(A) An electronegative element and an electropositive element										
	(B)	An electronegative element and an electronegative element									
	(C) An electropositive element and an electropositive element										
	(D)	None of these									
7.	In H ₃ (O ⁺ the formal charge on the oxygen atom is:									
	(A)	+1	(B)	-1		(C)	zero	(D)	+2		
8.	Which	Which combination will give the strongest ionic bond?									
	(A)	K ⁺ and Cl ⁻	(B)	K^{+}	and O ²⁻	(C)	Ca ²⁺ and Cl	(D)	Ca ²⁺ and O ²⁻		
9.	${ m Mg}^{2+}{ m C}$	$Mg^{2+}O^{2-}$ is formed since : [IE = Ionization energy, EA = Electron affinity]									
	(A) IE of Mg is low					(B)	EA of O is lov	v			
	(C) IE of Mg is high					(D)	IE of O is low	7			
10.	Select	t the correct statement.									
	(A)	(A) Both lattice energy and hydration energy decrease with ionic size									
	(B)	Lattice energy can be calculated using Born-Haber cycle									
	(C)	(C) If the cation is large compared to the anion, the lattice energy will remain almost constant with									
	(D)	a particular group All of the above are correct statements									
11.		n of the following compounds has both ionic and covalent bonding?									
44.	(A)	NaBr	(B)		(CN) ₂	(C)	PCl ₅	g: (D)	$\mathrm{CH_3CH_2OH}$		
10	TI- C	In Constitution and the Control of t									
12.		the formal charge on the O atoms in the ion $\left[: \ddot{O} = N = \ddot{O} : \right]^{+}$ is:									
	(A)	-2	(B)	-1		(C)	0	(D)	+ 1		



- *13. $MgSO_4$ is soluble while $BaSO_4$ is insoluble in H_2O . This is because :
 - (A) Lattice energy of ${\rm BaSO_4}$ is greater than ${\rm MgSO_4}$
 - (B) $BaSO_4$ is more covalent than $MgSO_4$
 - **(C)** Hydration energy of Mg²⁺ is greater than Ba²⁺
 - (D) Lattice energy of ${\rm MgSO_4}$ is greater than ${\rm BaSO_4}$
- **14.** In terms of polar character, which one of the following order is correct?

(A)
$$NH_3 < H_2O < HF < H_2S$$

(B)
$$H_2S < NH_3 < H_2O < HF$$

(C)
$$H_2O < NH_3 < H_2S < HF$$

(D)
$$HF < H_2O < NH_3 < H_2S$$

15. Correct Lewis structure is:

(A)
$$\left[\vdots \ddot{O} - C = \ddot{N} \vdots \right]^{-}$$

(B)
$$\left[C = C\right]^{2-}$$

(c)
$$\begin{bmatrix} \vdots \ddot{\mathbf{C}} \mathbf{1} - \ddot{\mathbf{O}} \vdots \end{bmatrix}^{-}$$

(D)
$$\ddot{N} = \ddot{O}$$
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