Arjuna 2.0 JEE 2026

T.F.T. - 02 | **Chemical Bonding** | **By ATS Sir**

1. An ionic compound $A^+ B^-$ is most likely to be formed when:
(A) the ionization energy of A high and electron affinity of B is low
(B) the ionization energy of A is low and electron affinity of B is high
(C) both, the ionization energy of A and electron affinity of B are high
(D) both, the ionization energy of A and electron affinity of B are low

2. A compound contains three elements A, B and C, if the oxidation of A = + 2, B = + 5 and C = – 2, the possible formula of the compound is:
(A) $A_3(B_4C)_2$ (B) $A_3(BC_4)_2$
(C) $A_2(BC_3)_2$ (D) ABC_2

3. Which pair of atoms form strongest ionic bond?
(A) Al and As (B) Al and N
(C) Al and Se (D) Al and O

4. Which of the following element does not show variable oxidation state.
(A) Cl (B) F
(C) Br (D) I

5. The type of bond involved in the bonding of NH_4NO_3.
(A) Ionic bond (B) Covalent bond
(C) Coordinate bond (D) All of these

6. Which of the following central atom of species has different oxidation number from others.
(A) NH_3 (B) SF_4
(C) SiF_4 (D) SO_2

7. Which of the following specie has 'π' co-ordinate bond.
(A) O_3 (B) SiF_6^{2-}
(C) CO (D) NO_3^-

8. Specie in which underlined atom follows octet rule:-
(A) $\underline{B}I_3$ (B) $\underline{Be}F_3^-$
(C) $\underline{Cl}F_3$ (D) $\underline{C}O$

9. In which of the following specie underlined atom has maximum oxidation state:-
(A) $\underline{S}F_6$ (B) $\underline{Xe}F_6$
(C) $\underline{Xe}O_6^{4-}$ (D) $\underline{I}O_6^{-5}$

10. Which of the following does not have non directional bond:-
(A) NaCl (B) BCl_3
(C) KNO_3 (D) $CaCl_2$

11. In which of the following compound octet of central atom is incomplete:-
(A) SF_2 (B) CH_4
(C) BeH_2 (D) CO

12. Which of the following does not show variable covalence:-
(A) F (B) Cl
(C) Br (D) I

13. Species in which π-coordinate bond is present :-
(A) NO_3^- (B) $POCl_3$
(C) CO (D) NOF_3

14. Which of the approaching axis is not appropriate to form π-bond by two py-orbitals :
(A) y-axis (B) x-axis
(C) z-axis (D) No suitable axis

15. Which of the following elements does not form stable diatomic molecules ?
(A) Iodine (B) Phosphorus
(C) Nitrogen (D) Oxygen

Answer Key

1. (B)
2. (B)
3. (D)
4. (B)
5. (D)
6. (A)
7. (C)
8. (D)
9. (C)
10. (B)
11. (C)
12. (A)
13. (C)
14. (A)
15. (B)

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