ARJUNA (NEET)

Classification of Elements & Periodicity in Properties

DPP-06

1. The correct order of electron affinity is:-
(A) Be < B < C < N (B) Be < N < B < C
(C) N < Be < C < B (D) N < C < B < Be

2. In the formation of a chloride ion, from an isolated gaseous chlorine atom, 3.8 eV energy is released, which would be equal to:-
(A) Electron affinity of Cl^-
(B) Ionisation potential of Cl
(C) Electronegativity of Cl
(D) Ionisation potential of Cl^-

3. $O_{(g)} + 2e^- \rightarrow O^{2-}_{(g)}$ ΔHeg = 603 KJ/mole.
The positive value of ΔHeg is due to:
(A) Energy is released to add on 1 e^- to O^{-1}
(B) Energy is required to add on 1 e^- to O^{-1}
(C) Energy is needed to add on 1e^- to O
(D) None of the above is correct

4. The electron affinity values for the halogens shows the following trend:
(A) F < Cl > Br > I (B) F < Cl < Br < I
(C) F > Cl > Br > I (D) F < Cl > Br < I

5. The process requiring the absorption of energy is:
(A) $F \rightarrow F^-$ (B) $Cl \rightarrow Cl^-$
(C) $O \rightarrow O^{2-}$ (D) $H \rightarrow H^-$

6. Second electron affinity of an element is:
(A) Always exothermic
(B) Endothermic for few elements
(C) Exothermic for few elements
(D) Always endothermic

7. Process, $Na^+_{(g)} \xrightarrow{I} Na_{(g)} \xrightarrow{II} Na_{(s)}$
(A) In (I) energy released, (II) energy absorbed
(B) In both (I) and (II) energy is absorbed
(C) In both (I) and (II) energy is released
(D) In (I) energy absorbed, (II) energy released

8. Which of the following configuration will have least electron affinity?
(A) ns^2np^5 (B) ns^2np^2
(C) ns^2np^3 (D) ns^2np^4

9. Which of the following will have the most negative electron gain enthalpy and which the least negative?
(A) F, Cl (B) Cl, F
(C) Cl, S (D) Cl, P

10. Which arrangement represents the correct order of electron gain enthalpy (with negative sign) of the given atomic species?
(A) S < O < Cl < F (B) O < S < F < Cl
(C) Cl < F < S < O (D) F < Cl < O < S

ANSWER KEY

1. (B)
2. (D)
3. (B)
4. (A)
5. (C)
6. (D)
7. (C)
8. (C)
9. (D)
10. (B)

Note - If you have any query/issue

Please share your feedback on PW Teachers-

https://forms.gle/jEBFswBuki4Ut2Lk6