



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-32(CLASS-11)

TOPIC- PERIODIC PROPERTIES

SUBTOPIC-BASIC CONCEPT



SUBJECT – CHEMISTRY

DURATION – 30 mins

F.M. - 15

DATE -15.08.20

1. Find the set of triad-

(a) Li, Be, B

(b) H, He, B

(c) B, C, O

(d) He, Li, B

Ans. a

2. In the modern periodic table, the number of group of the element is the same as-

(a) principal quantum number

(b) atomic number

(c) azimuthal quantum number

(d) none of these

Ans. d

3. The correct order for the size of I, Br and F-

(a) $I > Br > F$

(b) $Br > F > I$

(c) $Br > I > F$

(d) $Br > I < F$

Ans. a

4. For the same value of n, the screening power of orbital follows the order

(a) $s = p = d = f$

(b) $p > s > d > f$

(c) $f < d < p < s$

(d) $s < p < d < f$

Ans. c

5. Which of the reactions will need the minimum amount of energy?

- (a) $\text{Na} \rightarrow \text{Na}^+ + \text{e}^-$
- (b) $\text{Ca}^+ \rightarrow \text{Ca}^{++} + \text{e}^-$
- (c) $\text{K}^+ \rightarrow \text{K}^{++} + \text{e}^-$
- (d) $\text{C}^{2+} \rightarrow \text{C}^{3+} + \text{e}^-$

Ans. a

6. Which of the following statements is incorrect?

- (a) I.E.₁ of O is lower than that of N but I.E.₂ O is higher than that of N
- (b) The enthalpy of N to gain an electron is almost zero but of P is 74.3 kJ mol^{-1}
- (c) isoelectronic ions belong to the same period
- (d) The covalent radius of iodine is less than its Van der Waal's radius

Ans. b

7. The correct order of electron affinity is-

- (a) $\text{Cl} > \text{F} > \text{Br} > \text{I}$
- (b) $\text{F} > \text{O} > \text{Cl} > \text{Br}$
- (c) $\text{F} > \text{Cl} > \text{Br} > \text{O}$
- (d) $\text{O} > \text{F} > \text{Cl} > \text{Br}$

Ans. a

8. The pair which doesn't obey old formed Mendeleev periodic table-

- (a) Ar & K
- (b) Ar & Cl
- (c) Na & K
- (d) C & N

Ans. a

9. Which one is the most basic among these?

- (a) MgO
- (b) CaO
- (c) Al_2O_3
- (d) Na_2O

Ans. d

10. Which one will have the highest 1st ionisation energy?

- (a) $1s^2 2s^2 2p^6 3s^1$
- (b) $1s^2 2s^2 2p^4$

(c) $1s^2 2s^2 2p^6$

(d) $1s^2 2s^2 2p^6 3s^2$

Ans. c

11. Elements in the same vertical group of the periodic table have same-

- (a) Number of valence electrons
- (b) Atomic number
- (c) Atomic mass
- (d) Atomic volume

Ans. a

12. Which period contains minimum number of elements?

- (a) 5
- (b) 7
- (c) 1
- (d) 6

Ans. b

13. Which of the following is not a periodic property?

- (a) Metallic character
- (b) Electronegativity
- (c) Oxidizing power
- (d) Hardness

Ans. d

14. Which among the following is a set of coinage metal?

- (a) Cu, Ag, Au
- (b) Cu, K, Na
- (c) Au, Pt, W
- (d) Li, Na, B

Ans. a

15. Which among the following is not radioactive?

- (a) F
- (b) Th
- (c) Fr
- (d) At

Ans. a

PREPARED BY: MR. ARNAB PAUL CHOWDHURY