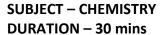
#### ST. LAWRENCE HIGH SCHOOL



#### A JESUIT CHRISTIAN MINORITY INSTITUTION

# WORKSHEET-32(CLASS-11) TOPIC- PERIODIC PROPERTIES

## SUBTOPIC-BASIC CONCEPT



F.M. - 15 DATE -15.08.20

1	Time!	460		٦,	4	
Ι.	Find	tne	set	OT	tria	<b>I a</b> -

- (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

#### Ans. c

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



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

#### 6. Which of the following statements is incorrect?

- (a) I.E.<sub>1</sub> of O is lower than that of N but I.E.<sub>2</sub> O is higher than that of N
- (b) The enthalpy of N to gain an electron is almost zero but of P is  $74.3~{\rm kJ~mol}^{-1}$
- (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) Cl > F > Br > I
- (b) F > O > Cl > Br
- (c) F > Cl > Br > O
- (d) O > F > Cl > 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<sub>2</sub>O

Ans. d

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

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

