



Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO 3

SUBJECT: CHEMISTRY

CLASS-XI

JULY,25

Ch-3 Classification of elements & periodicity in properties

1. Define the following:

(a) Enthalpy of ionisation

(b) Electron gain enthalpy

2. Explain the Variation in atomic radius along period.

3. Define the following;

(a) Electron affinity

(b) Electronegativity

4. Explain diagonal relationship.

5. Why can we not find atomic radius accurately.

6. Define the following:

(a) Penetration effect

(b) Shielding effect

7. Why electron affinity of oxygen is less than sulphur?

8. Why second electron gain enthalpy of oxygen is positive.

9. Explain electron gain enthalpy of 'F' is less than 'Cl'.

10. What are isoelectronic species? Give example.

11. Write some properties of 'd' block elements.

12. Explain The following :

(i) Periodicity in properties (ii) Screening effect is not shown by completely filled d&f subshell.

13. Explain radius of Gallium is less than aluminum.

14. Explain enthalpy of ionization of Gallium is more than aluminum.