

I. 1 mark each questions : [03]

(A) Fill in the blanks :

1. Among alkali metals, the metals with the highest value of ionization potential is
2. Moving across a of periodic table, the elements show increasing character.
3. Ionisation energy along period and Down a group.

(B) Name the following : [03]

1. Smallest atom in second period.
2. The most electronegative element.
3. The group of elements having zero valency.

II. 3 marks each questions : [12]

1. An element has an atomic number 16, state
 - (a) to which period & group it belongs.
 - (b) the number of valence electrons.
 - (c) whether it is a metal or non-metal.
2. What is meant by a 'group' in periodic table ?
 - (a) Within a group, where would you find the element with
 - (i) greatest metallic character
 - (ii) largest atomic size
 - (b) How many elements are there in period 2 ?
3. Give reasons :
 - (a) Halogens have very high values of electron affinity.
 - (b) Fluorine has lower electron affinity than chlorine.
 - (c) Noble gases have practically zero electron affinity.
4. Define atomic radius. How does it vary in a group and in a period ? Justify.

III. 4 marks questions :

[12]

1. Given below is a list of symbols of elements from the periodic table :
S, Al, C, Ar, Mg, F, O and B
choose correct symbol for
 - (a) most metallic element
 - (b) noble gas
 - (c) elements of group 16
 - (d) elements of period 3

2. The atoms A & B have electronic configuration A – (2, 8, 18, 2) and B – (2, 6).
 - (a) To which periods and groups A & B belong
 - (b) Give valency of A & B
 - (c) What is formula of compound of A and B ? Is the compound ionic or covalent in nature.

3. Given below is a list of elements of a period Li, Be, B, C, O, F and Ne.
 - (a) Name the missing element & its place.
 - (b) Which element shows catenation ?
 - (c) Place fluorine, beryllium & nitrogen in increasing electronegativity.
 - (d) Name elements belonging to halogen & noble series ?

Best of Luck