

1. up to which element, the Law of Octaves was found applicable?

- (a) Oxygen (b) Calcium
(c) Cobalt (d) Potassium

2. The properties of eka-aluminium predicted by Mendeleev are the same as the properties of later discovered element:

- (a) Scandium (b) Germanium
(c) Gallium (d) Aluminum

3. an atom of an element has the electronic configuration 2, 8, 2. To which group does it belong?

- (a) 4th group (b) 6th group
(c) 3rd group (d) 2nd group

4. Element 'X' forms a chloride with the formula XCl_2 , which is a solid with high melting point. X would most likely be in the same group of the periodic table as:

- (a) Si (b) Mg
(c) Al (d) Na

5. What is the atomic number of element of period 3 and group 17 of the Periodic Table?

- (a) 10 (b) 4
(c) 17 (d) 21

6. Which one of the following statements is not correct about the trends in the properties of the elements of a period on going from left to right?

- (a) The oxides become more acidic (b) The elements become less metallic
(c) There is an increase in the number of valence electrons
(d) The atoms lose their electrons more easily

7. the elements A, B and C belong to groups 1, 14 and 17 respectively of the Periodic Table. Which two elements will form ionic compounds?

- (a) A and B (b) A and C
(c) B and C (d) None

8. An element X has mass number 40 and contains 21 neutrons in its atom. To which group of the Periodic Table does it belong?

- (a) Group 1 (b) Group 4
(c) Group 2 (d) Group 3

9. Which one of the following statements is not correct about the trends in the properties of the elements of a group on going down in a group?

- (a) The chemical reactivity of metals increases.
(b) The metallic character of elements increases.
(c) The size of the atom increases.
(d) The valence electrons increase.

10- Which of them doesn't lose electrons easily?

- A) Na B) F
C) Mg D) Al

11- On moving from left to right in a periodic table, size of an atom?

- A) Increases B) Decreases
C) Does not change D) First increases then decreases

12. The number of valance electrons present in Calcium is

- (a) 1 (b) 2
(c) 3 (d) 4

13 The electronic configuration of an element M is 2, 8, 4. In modern periodic table, the element M is placed in

- a) 4th group b) 2nd group
c) 14th group d) 18th group

14. What is the other name for group 18th elements?

- a) Noble gases b) Alkali metals
c) Alkali earth metals d) Halogens

15. Which of the following elements has 2 shells and both are completely filled?

- a) Helium b) Neon
c) Calcium d) Boron

16. An element X belongs to the 3rd period and 1st group of the periodic table. What is the number of valence electrons in its atom?

- a) 1 b) 3
c) 6 d) 8