

XI Chemistry Worksheet

Time: 30 min Ch#3 : Classification of Elements and Periodicity in Properties -03 Full Marks: 20

Instructions:

1. All questions are compulsory.

2. Please give the explanation for the answer where applicable.

Q1 - Write the atomic number and name the two elements, which are named after the name of scientist.
(2 Marks)

Q2 - How many blocks are there in modern periodic table? What is the basis of dividing periodic table in blocks?
(2 Marks)

Q3 - Why the number of elements in first period is only two?
(2 Marks)

Q4 - Define

(i) Covalent radius (ii) van der Waals radius (iii) Metallic radius.

(3 Marks)

Q5 - Arrange the following species in decreasing order of size. Give reasons also.

O^{2-} , F^- , Mg^{2+} , Na^+ , N^{3-}

(3 Marks)

Q6 - (a) Name the most stable conformer of ethane.

(b) Write the electronic configuration of following atoms/ions

Cu , Ca^{2+} , O^{2-} , F^-

(5 Marks)

Q7 - Write the group numbers which are placed in p and d block elements in the modern periodic table.

(1 Mark)

Q8 - Write the formula of compound which might be formed by the pair of aluminium and sulphur.

(1 Mark)

Q9 - Write the IUPAC name of the following elements with atomic number:

(i) 103 (ii) 110

(1 Mark)