CHEMISTRY

Metals and Non - Metals

Q1 Reaction between (X) and (Y), forms compound Z. X loses electron(s) and (Y) gains electron(s). Which of the following properties is not shown by Z?
(A) Has high melting point
(B) Has low melting point
(C) Conducts electricity in molten state
(D) Occurs as solid

Q2 The electronic configurations of three elements (X , Y) and (Z) are (X - 2,8 ; Y - 2,8,7) and (Z-2,8,2). Which of the following is correct?
(A) (X) is a metal
(B) (Y) is a metal
(C) (Z) is a non-metal
(D) (Y) is a non-metal and (Z) is a metal

Q3 Which of the following are not ionic compounds?
(i) KCl
(ii) HCl
(iii) CCl_4
(iv) NaCl
(A) (i) and (ii)   (B) (ii) and (iii)
(C) (iii) and (iv)   (D) (i) and (iii)

Q4 Which among the following will be the correct chemical formula of two elements X and Y whose atomic numbers are 19 and 17?
(A) XY   (B) XY_2
(C) X_2Y (D) X_2Y_3

Q5 What are the ions present in magnesium oxide?
(A) Cation: O^-, Anion: Mg^+
(B) Cation: Mg^+, Anion: O^-
(C) Cation: Mg^{2+}, Anion: O^{2-}
(D) Cation: O^{2-}, Anion: Mg^{2+}

Answer Key

Q1	(B)		**Q4**	(A)
Q2	(D)		**Q5**	(C)
Q3	(B)			

Hints & Solutions

Q1 **Text Solution:**

The compound formed by loosing and gaining electrons are ionic compounds. They have high melting point.

Video Solution:

Q2 **Text Solution:**

X is a noble gas, Y is a non-metal and Z is a metal.

Video Solution:

Q3 **Text Solution:**

The correct one is formed from nonmetals. Ionic compounds are formed from metals and non-metals.

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Q4 **Text Solution:**

Try to write the electronic configuration, it will help to write the valency which can be used to write the chemical formula.

Video Solution:

Q5 **Text Solution:**

Cations are formed when there is an imbalance between the number of electrons and protons. Try to land to the correct answer using the above information.

Video Solution:

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