



برعاية معالي وزير التربية والتعليم
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وتوجيهات مساعد الوزير لشئون تطوير المناهج التعليمية
والمشرف على الادارة المركزية لتطوير المناهج

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اداءات وتقييمات الصف الثانى الثانوى

Chemistry

لجنة الاعداد والمراجعة

خبراء مكتب تنمية مادة العلوم

اشراف علمى

مستشار العلوم

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الإدارة المركزية لتطوير المناهج

إدارة تنمية مادة العلوم

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Home performance

Q1/ using the periodic table of elements, choose the correct answer:

1-

Hydrogen Halide	Normal Boiling Point, °C
HF	19
HCl	-85
HBr	-67
HI	-35

-The liquefied hydrogen halides have the normal boiling points given above. The relatively high boiling point of HF can be correctly explained by which of the following?

- (a) HF molecules have a smaller dipole moment.
- (b) HF is the strongest acid.
- (c) HF is much less soluble in water.
- (d) HF molecules tend to form hydrogen bonds.

2- $\text{CH}_3\text{-CH}_2\text{-OH}$ boils at 78°C and $\text{CH}_3\text{-O-CH}_3$ boils at -24°C , although both compounds have the same composition. This difference in boiling points may be attributed to a difference in...

- (a) Molecular mass
- (b) Density
- (c) Specific heat
- (d) Hydrogen bonding

3- X = $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$

Y = $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-OH}$

Z = $\text{HO-CH}_2\text{-CH}_2\text{-CH}_2\text{-OH}$

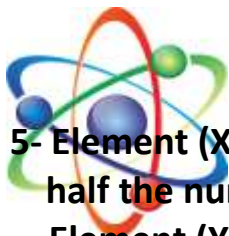
-Based on concepts of polarity and hydrogen bonding, which of the following sequences correctly lists the compounds above in the order of their increasing solubility in water?

- (a) $Z < Y < X$
- (b) $Y < Z < X$
- (c) $Y < X < Z$
- (d) $X < Z < Y$

4-..... Makes life possible

- (a) Coordinate bond.
- (b) Polar covalent
- (c) Hydrogen bond
- (d) Metallic bond





5- Element (X) located in period three and the number of its valence electrons half the number of electrons for the first energy level.

- Element (Y) its electronic configuration ended by $3P^1$
- Which of the following is the correct choice?

- (a) (Y) has a higher melting point and its crystal softer than (X)
- (b) (Y) has a lower melting point and its crystal harder than (X)
- (c) (Y) has a lower melting point and its crystal softer than (X)
- (d) (Y) has a higher melting point and its crystal harder than (X)

6- The type of bond between water molecule and H^+ ion is, while that with another water molecule is

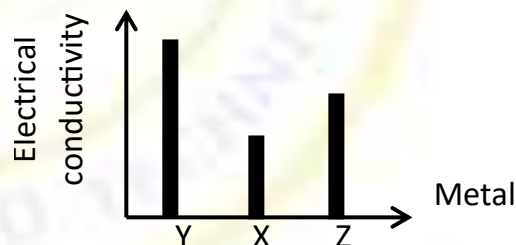
- (a) Ionic - covalent
- (b) Ionic - Hydrogen
- (c) Covalent- Hydrogen
- (d) coordinate- Hydrogen

7- The origin of electron pair in the coordinate bond is

- (a) Donor central atom carry alone pair of electrons
- (b) One acceptor atom
- (c) Two bonded atoms
- (d) Central atom has a free electron

8-From the following figure, the descending Order of the metallic bond strength for The three elements is.....

- (a) $Y < Z < X$
- (b) $X < Z < Y$
- (c) $Z < Y < X$
- (d) $X < Y < Z$



9- Which of the following elements is strongest metal?

- (a) Mg
- (b) Cs
- (c) Rb
- (d) K

10- An atom of element (X) contains only four sub- levels and is completely Filled, so a sample of this element has bond

- (a) Pure covalent
- (b) Ionic
- (c) Metallic
- (d) Polar covalent

