



CHEMISTRY ONLINE
— **TUITION** —

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CHEMISTRY

MULTIPLE CHOICE - 1

CHEMICAL BONDING

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Chemical Bonding - 1

1. Which ion is most polarizing?

- (A) Al^{3+} (B) Ba^{2+} (C) Mg^{2+} (D) Na^+

2. Which solid exhibits more than one kind of chemical bonding?

- (A) brass (B) copper (C) diamond (D) ice

3. Which of the following solids consists of atoms or molecules held together only by van der Waals' forces?

- (A) CO_2 (B) Cu (C) H_2O (D) MgO

4. Which of the following solids has a simple molecular lattice?

- (A) magnesium oxide (B) sodium (C) Silicon(IV) oxide (D) sulfur

5. Magnesium oxide is used to line industrial furnaces because it has a very high melting point. Which type of bond needs to be broken for magnesium oxide to melt?

- (A) co-ordinate (B) covalent (C) ionic (D) metallic

6. Why does copper wire conduct electricity when a potential difference is applied?

- (A) Bonding electrons in the crystal lattice move. (C) The atoms of copper become ionized.
(B) Copper (II) ions move to the cathode. (D) The crystal lattice breaks down.

7. Which of the following molecules is not planar?

- (A) benzene (B) boron trifluoride (C) ethane (D) phosphorus trichloride

8. Which of the following molecules contains six bonding electrons?

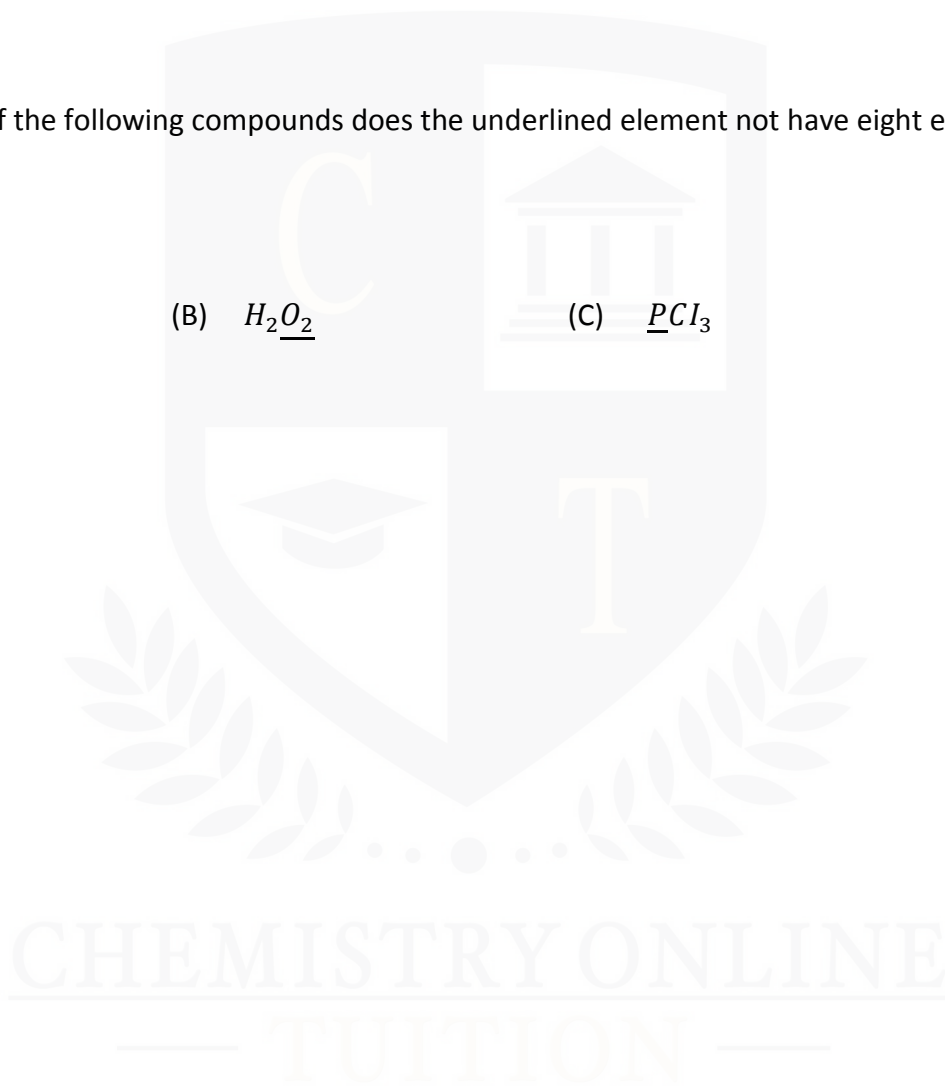
- (A) C_2H_4 (B) CO_2 (C) H_2S (D) NCl_3

9. Which of the following best describes the change in the bond angle in water when the ion H_3O^+ is formed?

- (A) decreases to approximately 90° (C) increases slightly
(B) decreases to approximately 109° (D) increases to approximately 120°

10. In which one of the following compounds does the underlined element not have eight electrons in the outer shell?

- (A) $\text{Li}\underline{2}^0$ (B) $\text{H}_2\underline{\text{O}}_2$ (C) $\text{P}\underline{\text{C}}\text{I}_3$ (D) $\text{P}\underline{\text{C}}\text{I}_5$



I am Sorry !!!!!



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- Founder & CEO of Chemistry Online Tuition Ltd.
- Completed Medicine (M.B.B.S) in 2007
- Tutoring students in UK and worldwide since 2008
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