BRITISH COLUMBIA CHEMISTRY 11 (MCH--11) · UNIT A · 10 QUESTIONS

# Atoms, Molecules and Bonding — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A sodium atom has one valence electron. In its Lewis symbol, the number of dots shown is**

- A 2
- B 8
- C 11
- D 1

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2 **Boron trifluoride has a central boron atom bonded to three fluorine atoms and no lone pairs. The shape of the molecule is**

A bent

B tetrahedral

C linear

D trigonal planar

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3 **Beryllium chloride has a central beryllium atom bonded to two chlorine atoms and no lone pairs. The shape of the molecule is**

A bent

B linear

C tetrahedral

D trigonal pyramidal

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**4** **Which molecule is polar**

- A $CO_2$
- B $CH_4$
- C $N_2$
- D $H_2O$

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**5** **Between nonpolar molecules, the only intermolecular force acting is**

- A hydrogen bonding
- B London dispersion forces
- C ionic bonding
- D metallic bonding

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6 **Which liquid has the highest boiling point, because its molecules form strong hydrogen bonds**

A $H_2O$

B $H_2S$

C $CH_4$

D $CO_2$

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7 **The most reactive metals are found in group**

A 17

B 18

C 16

D 1

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8 **An atom has electron arrangement 2, 8, 7. The element is**

A fluorine

B chlorine

C sulfur

D argon

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9 **The graph shows atomic radius down group 1, from lithium at A to caesium at E. The radius at point C, in the graph units, is ____**

ANSWER _____

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10 **An ionic compound typically has a high melting point and conducts electricity when**

A solid and dry

B frozen in ice

C molten or dissolved in water

D mixed with oil

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## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | D | **5.** | B | **9.** | 227 |
| **2.** | D | **6.** | A | **10.** | C |
| **3.** | B | **7.** | D | | |
| **4.** | D | **8.** | B | | |

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