ONTARIO CHEMISTRY, GRADE 12, UNIVERSITY PREPARATION (SCH4U) · UNIT B · 5 QUESTIONS

Structure and Properties of Matter — 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 **Boron trifluoride is trigonal planar because boron has**

- **A** Three bonding pairs and no lone pairs
- **B** Two double bonds
- **C** One lone pair
- **D** Four bonding pairs

Understand It with Pulse | Flag a mistake

2 **Which molecule is linear**

A Beryllium chloride

B Ammonia

C Methane

D Water

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3 **Neatly folded shirts and pairs of trousers in stacks. Lone pairs repel bonding pairs more strongly than bonding pairs repel each other because lone pairs are**



A Farther away

B Smaller

C Closer to the central nucleus

D Positively charged

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4 **Which substance is a molecular solid with low melting point**

A Iron

B Sodium chloride

C Ice

D Diamond

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5 **Solubility of a polar solute in water is best explained by**

A High pressure

B Like dissolves like

C Metallic bonding

D Dispersion forces only

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ANSWER KEY

1. A
2. A
3. C
4. C
5. B

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