ONTARIO CHEMISTRY, GRADE 11, UNIVERSITY PREPARATION (SCH3U) · UNIT A · 5 QUESTIONS

Matter, Chemical Trends, and Chemical 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.

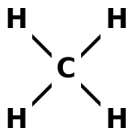
1 **The diagram shows an ammonia molecule. How many lone pairs are shown on the nitrogen atom?**



- **A** 0
- **B** 1
- **C** 2
- **D** 4

Understand It with Pulse | Flag a mistake

2 **The diagram shows a methane molecule. How many lone pairs are shown on the central carbon atom?**



- **A** 1
- **B** 2
- **C** 0
- **D** 4

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3 **A metallic bond is best described as**

- **A** electrons shared between two atoms only
- **B** transfer of electrons to a nonmetal
- **C** hydrogen bonding between metals
- **D** a sea of delocalized electrons around positive metal ions

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4

Metals conduct electricity because

A their delocalized electrons can move

B their electrons are fixed in place

C they have covalent bonds

D they dissolve in water

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5 **Neatly folded shirts and pairs of trousers in stacks. The shape of a molecule with four bonding pairs and no lone pairs on the central atom is**



A bent

B tetrahedral

C linear

D trigonal pyramidal

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ANSWER KEY

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

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