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Quantum mechanics has a number of consequences that are important for our understanding of organic chemistry. Which one of the following statements about nitromethane is incorrect?

- ☐ (A) The locations of the electrons of an atom are described by atomic orbitals.
- ☐ (B) A given orbital can contain only 2 electrons.
- ☐ (C) Each orbital has an associated energy and the electrons will occupy the highest energy orbitals first
- ☐ (D) Atomic orbitals on different atoms will combine to give molecular orbitals.
- ☐ (E) An atomic orbital on one atom can interact with an atomic orbital on another atom only if their symmetries match.

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