

Brett Robbins Academic Consulting

Chemistry 30 Practice Test

Unit C: Organic Chemistry

5 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

Question 1

But – 1 – ene can be classified as

- A) an aliphatic alkane
- B) an aromatic alkene
- C) an aliphatic alkene
- D) a saturated hydrocarbon

Question 2

A hydrocarbon has a five – carbon parent chain with methyl groups on carbons 2 and 4. Its IUPAC name is

- A) 2, 4 – dimethylpentane
- B) 2, 4 – dimethylhexane
- C) 3, 4 – dimethylpentane
- D) 2, 4 – dimethylbutane

Question 3

The molecular formula of the alkane that contains 9 carbon atoms is

- | | |
|----------------|----------------|
| A) C_9H_{18} | B) C_9H_{20} |
| C) C_9H_{16} | D) C_9H_{22} |

Question 4

When one molecule of butane undergoes complete combustion, the number of carbon dioxide molecules produced is

Question 5

The number of hydrogen atoms in one molecule of 3 – ethylhexane is

Answer Key

- | | | |
|------|------|-------|
| 1. C | 3. B | 5. 18 |
| 2. A | 4. 4 | |

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