BRITISH COLUMBIA SCIENCE 10 · UNIT B · 10 QUESTIONS

Chemical Processes — 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 energy profile. Reactants are at 6, the peak is at 9, and products are at 2. The energy released, in the diagram units, is**

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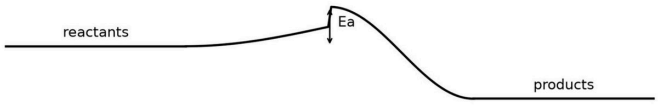

A 3
B 4
C 7
D 11

- **A** 3
- **B** 4
- **C** 7
- **D** 11

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2 **The diagram shows an energy profile. Reactants are at 4, the peak is at 10, and products are at 6. The activation energy, in the diagram units, is**

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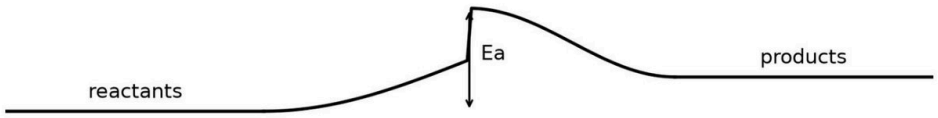

A 2
B 10
C 4
D 6

- **A** 2
- **B** 10
- **C** 4
- **D** 6

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3 **A sports cold pack is squeezed and the chemicals inside mix. The pack gets cold. This shows the reaction is**

A endothermic

B exothermic

C a neutralization

D a combustion

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4 **A catalyst speeds up a reaction by**

A raising the activation energy

B changing the products formed

C lowering the activation energy

D adding heat from outside

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5 **The safest way to store bleach at home is**

- A poured into an unlabelled food jar
- B in its labelled container, out of reach of children
- C mixed with ammonia cleaner
- D in an open bucket by a heater

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6 **Opening a window while using a strong cleaner helps because fresh air**

- A keeps heat inside the room
- B makes the smell stronger
- C dries the cleaner faster
- D carries fumes away from the user

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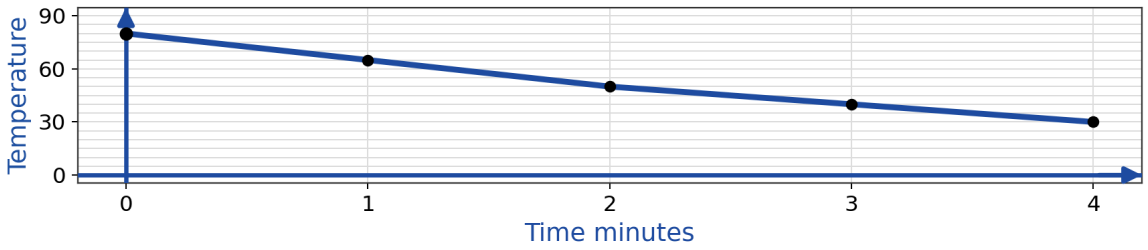
7 **The graph shows the temperature of a hot liquid cooling over time. The temperature at minute 2 is**



- **A** 80
- **B** 65
- **C** 50
- **D** 30

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8 **Acid rain damages limestone buildings because the acid**

- **A** strengthens the stone
- **B** reacts with and dissolves the stone
- **C** makes the stone waterproof
- **D** adds colour to the stone

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9 **A candle flame goes out when covered with a jar because the flame runs out of**

A oxygen

B nitrogen

C carbon dioxide

D water vapour

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10 **In a closed container, 7 g of one reactant reacts completely with 5 g of a second reactant. The total mass of products, in grams, is ____**

ANSWER _____

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ANSWER KEY

1. B
2. D
3. A
4. C
5. B
6. D
7. C
8. B
9. A
10. 12

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