ENGLAND GCSE CHEMISTRY AQA HIGHER · UNIT 3 · 10 QUESTIONS

Quantitative Chemistry — 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 so it can be fixed.

1 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it evaporates
- B it freezes
- C it expands
- D it contracts

Understand It with Pulse | Flag a mistake

2 **A chocolate cake is baked. Is baking a chemical change?**

- A no
- B yes
- C sometimes
- D never

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3 **Hardcover books are stacked on a table. What force pulls them down?**

- A tension
- B air resistance
- C friction
- D gravity

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4 **What is the relative formula mass of carbon dioxide, CO_2?**

- A 40
- B 32
- C 28
- D 44

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5 **How many moles of gas occupy 48 cubic decimetres at room temperature and pressure?**

- A 3
- B 1
- C 4
- D 2

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6 **How many moles are there in 12 g of a substance with a relative formula mass of 40?**

- A 0.3
- B 0.9
- C 0.15
- D 0.6

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7 **Silver coins conduct electricity well. Why?**

A they are shiny and reflective

B they are cold

C they have free electrons

D they are heavy

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8 **A reaction should make 20 g of product but makes 16 g. What is the percentage yield?**

A 125%

B 36%

C 4%

D 80%

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9 **The maximum possible mass of product is 50 g. A student makes 40 g. What is the percentage yield?**

A 80%

B 90%

C 160%

D 70%

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10 **A calculator runs on a small current. What is current measured in?**

A amperes

B volts, the unit of voltage

C watts, the unit of power

D ohms, the unit of resistance

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ANSWER KEY

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

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