ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 10 · 10 QUESTIONS

Key Concepts in 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 **Lemons taste sour. What does sour taste show?**

- A an alkali is present
- B a metal is present
- C a salt is present
- D an acid is present

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

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

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3 **A hot air balloon cools down. What happens?**

- A it sinks
- B it stays still
- C it bursts
- D it rises faster

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4 **Paintbrushes are cleaned in water. Why does the paint wash off?**

- A the paint freezes in the water
- B the paint dissolves
- C the paint burns in the water
- D the paint melts in the water

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5 **A reaction makes 25 g of useful product from 100 g of reactants in total. What is the atom economy?**

- A 50%
- B 25%
- C 75%
- D 12%

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6 **Why was Mendeleev's table accepted?**

- A every scientist agreed with him at once
- B he arranged the elements by number
- C his table had no gaps left in it
- D his predictions came true

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7 **Why does graphite feel slippery?**

A strong covalent bonds join its layers

B weak forces hold its layers together

C it is made of separate molecules

D its atoms are not joined at all

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8 **Which particle has no charge?**

A the nucleus

B the proton

C the neutron

D the electron

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9 **What did Dalton think an atom was?**

- A a ball of positive charge with electrons in it
- B a cloud of electrons with no centre
- C a tiny solid ball
- D a small nucleus with shells around it

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10 **An element is in period 2 of the periodic table. How many electron shells do its atoms have?**

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

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ANSWER KEY

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

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