ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 15 · 10 QUESTIONS

Chemical Analysis — 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 cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?**

- A a chemical change
- B a neutralisation
- C a reversible reaction
- D an energy transfer

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2 **Glass marbles are shaken in a tray. What does this model?**

- A particles freezing into place
- B particles disappearing completely
- C particles gaining energy
- D particles bonding together

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3 **How do you test for sulfate ions?**

A a glowing splint relights

B limewater turns cloudy

C silver nitrate gives a yellow precipitate

D barium chloride gives a white precipitate

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4 **Silver coins are made of the element silver. What is the chemical symbol for silver?**

A Si

B Sv

C Ag

D S

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5 **An ice cream cone melts. What is the melting point of the ice cream?**

- A around 0 degrees Celsius
- B around 37 degrees Celsius
- C around 100 degrees Celsius
- D around minus 20 degrees Celsius

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6 **How many atoms of hydrogen are there in one molecule of ammonia?**

- A 2
- B 4
- C 5
- D 3

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7 **Which gas is given off when an acid reacts with a carbonate?**

- A hydrogen gas from the acid
- B chlorine gas from the salt
- C oxygen gas from the air
- D carbon dioxide

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8 **In a chromatogram, a spot moves 6 cm and the solvent moves 8 cm. What is the Rf value?**

- A 1.5
- B 0.9
- C 0.75
- D 0.85

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9 **Lemons taste sour. What does sour taste show?**

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

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10 **How do you test for carbon dioxide gas?**

- A it turns litmus blue
- B it burns with a pop
- C it relights a glowing splint
- D it turns limewater cloudy

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ANSWER KEY

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

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