ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 11 · 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 **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

Understand It with Pulse | Flag a mistake

2 **Paintbrushes apply paint to a wall. What is the paint made of?**

- A a single compound, nothing else
- B a mixture of substances
- C pure water with nothing in it
- D a single element, nothing else

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3 **What can gas chromatography separate?**

- A mixtures of gases
- B metals from their ores
- C acids from alkalis only
- D solids from liquids only

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4 **What happens to the white precipitate of aluminium hydroxide in excess sodium hydroxide?**

- A it dissolves
- B it turns brown at once
- C it turns blue at once
- D it forms more precipitate

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5 **What is a titration used for?**

A finding a concentration

B finding a mass

C finding a temperature change

D finding a colour

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6 **What colour flame does potassium give?**

A red

B lilac

C yellow

D green

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7 **How can pure water be made from sea water?**

- A filtration
- B distillation
- C evaporation in sunlight
- D decanting

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

- A silver nitrate gives a yellow precipitate
- B barium chloride gives a white precipitate
- C a glowing splint relights brightly
- D limewater turns cloudy white

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9 **A sample containing calcium is put in a flame. What colour is the flame?**

- A orange-red
- B crimson red
- C pale lilac
- D bright yellow

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

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

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ANSWER KEY

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

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