ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 9 · 10 QUESTIONS

Chemicals of the Natural Environment — 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 a salt is present
- B an acid is present
- C an alkali is present
- D a metal is present

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

A the paint freezes in the water

B the paint burns in the water

C the paint dissolves

D the paint melts in the water

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3 **What is the formula of propane?**

A C_2H_6

B C_3H_6

C C_4H_{10}

D C_3H_8

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4 **What is the relative formula mass of the alkane C_2H_6?**

A 30

B 32

C 28

D 42

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5 **What forms at the anode during the electrolysis of copper sulfate solution?**

A bromine

B lead

C oxygen

D hydrogen

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6 **What do hydrogen fuel cells make?**

A electricity and carbon dioxide

B heat and carbon dioxide

C electricity and water

D electricity and oxygen

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

A it freezes

B it evaporates

C it contracts

D it expands

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8 **When copper sulfate solution is electrolysed with carbon electrodes, what is made at the cathode?**

- A hydrogen gas from the water
- B sulfur from the sulfate ions
- C oxygen gas from the water
- D copper

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9 **What happens when an alkene reacts with bromine water?**

- A the bromine water turns bright blue
- B the bromine water turns colourless
- C the bromine water stays orange
- D the bromine water turns cloudy white

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10 **Why do the carbon anodes in aluminium extraction need replacing?**

A they are used up making cryolite

B they dissolve in the aluminium

C they burn away in oxygen

D they melt in the hot electrolyte

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ANSWER KEY

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

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