ENGLAND GCSE CHEMISTRY EDEXCEL HIGHER · UNIT 3 · 10 QUESTIONS

Chemical Changes — 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 **An ice cream cone melts. What is the melting point of the ice cream?**

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

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

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

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3 **A castle wall is made of stone. What type of rock is limestone?**

- A volcanic
- B sedimentary
- C igneous
- D metamorphic

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4 **How many moles are there in 20 g of a substance with a relative formula mass of 40 ?**

- A 1
- B 0.5
- C 1.5
- D 0.25

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5 **What forms at the anode during the electrolysis of sodium chloride solution?**

A hydrogen

B lead

C bromine

D chlorine

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6 **What is made at the anode when concentrated hydrochloric acid is electrolysed?**

A chlorine

B oxygen gas from the water

C hydrogen gas from the acid

D sodium metal from the solution

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7 **What is the pH of a neutral solution?**

- **A** 0
- **B** 1
- **C** 7
- **D** 14

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8 **What is the half equation for the formation of hydrogen gas?**

- **A** $2H^+ + 2e^- \rightarrow H_2$
- **B** $2H \rightarrow H_2$
- **C** $H_2 \rightarrow 2H^+ + 2e^-$
- **D** $H^+ + e^- \rightarrow H$

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

- **A** they dissolve in the aluminium
- **B** they burn away in oxygen
- **C** they are used up making cryolite
- **D** they melt in the hot electrolyte

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10 **What is the half equation for oxygen gas forming at the anode?**

- **A** $4O^{2-} \rightarrow 2O_2 + 4e^-$
- **B** $O_2 \rightarrow 2O^{2-} + 4e^-$
- **C** $2O^{2-} \rightarrow O_2 + 4e^-$
- **D** $2O^{2-} + 4e^- \rightarrow O_2$

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ANSWER KEY

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

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