ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 12 · 10 QUESTIONS

Making Useful Chemicals — 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 castle is built of limestone. What is limestone made of?**

- A calcium carbonate
- B calcium sulfate, found in plaster
- C sodium chloride, common salt
- D magnesium oxide, a white powder

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2 **A chocolate cake rises in the oven. What makes it rise?**

- A a gas is made
- B the egg evaporates
- C the sugar freezes
- D the flour melts

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3 **Why are rates measured at the start of a reaction?**

A the rate is fastest then

B the reaction has finished by then

C the products slow the reaction down

D the temperature is highest then

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4 **What is the relative formula mass of sodium chloride, NaCl?**

A 81.5

B 23

C 35.5

D 58.5

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5 **How many moles are there in 8 g of a substance with a relative formula mass of 16?**

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

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6 **What is the mass of 3 moles of a substance with a relative formula mass of 20?**

- A 30 g
- B 60 g
- C 70 g
- D 120 g

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7 **A solution has a concentration of 1 mol per cubic decimetre. How many moles are in 2 cubic decimetres of the solution?**

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

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8 **What is the relative formula mass of magnesium oxide, MgO?**

- A 80
- B 48
- C 36
- D 40

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9 **The maximum possible mass of product is 100 g. A student makes 80 g. What is the percentage yield?**

- A 90%
- B 160%
- C 80%
- D 70%

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

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

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ANSWER KEY

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

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