ENGLAND GCSE CHEMISTRY OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 6 · 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 chocolate cake rises in the oven. What makes it rise?**

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

Understand It with Pulse | Flag a mistake

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

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

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3 **Why does increasing the pressure of a gas increase the rate?**

- A particles are closer together
- B particles get smaller
- C particles move more slowly in the gas
- D the temperature falls

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4 **Silver coins conduct electricity well. Why?**

- A they have free electrons
- B they are cold
- C they are shiny and reflective
- D they are heavy

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5 **A reaction makes 60 g of useful product from 120 g of reactants in total. What is the atom economy?**

- A 25%
- B 150%
- C 100%
- D 50%

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6 **Lemons contain citric acid. What do acids make with metals?**

- A a salt and oxygen gas
- B a salt and water, never hydrogen
- C a salt and hydrogen
- D water only, nothing else

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7 **In a second experiment, 90 cm cubed of gas are made in 15 seconds. What is the rate of the reaction?**

- A 5.5 cm^3/s
- B 7.5 cm^3/s
- C 6.5 cm^3/s
- D 6 cm^3/s

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8 **The maximum possible mass of product is 100 g. A student makes 40 g. What is the percentage yield?**

- A 50%
- B 30%
- C 40%
- D 80%

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9 **A reaction should make 200 g of product but only makes 100 g. What is the percentage yield?**

- A 60%
- B 50%
- C 100%
- D 40%

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10 **What is the mass of 2 moles of a substance with a relative formula mass of 16?**

- A 16 g
- B 32 g
- C 42 g
- D 64 g

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ANSWER KEY

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

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