ENGLAND GCSE CHEMISTRY OCR TWENTY FIRST CENTURY HIGHER · 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 castle is built of limestone. What is limestone made of?**

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

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

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

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

- A 2
- B 0.5
- C 1
- D 3

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

- A 2
- B 3
- C 1
- D 0.5

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5 **What happens to the ammonia made in the Haber process?**

- A it is mixed with oxygen
- B it is cooled and liquefied
- C it is released into the air
- D it is burned as a fuel

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6 **A solution contains 3 moles of solute in 2 cubic decimetres of solution. What is its concentration in moles per cubic decimetre?**

- A 4.5 mol/dm³
- B 0.75 mol/dm³
- C 3 mol/dm³
- D 1.5 mol/dm³

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7 **A school lunch tray holds a meal. Why do we need food?**

- A to stay awake at night
- B to feel full after eating
- C for energy and growth
- D for fun only, not for health

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8 **How many moles of gas occupy 96 cubic decimetres at room temperature and pressure?**

- A 3
- B 4
- C 5
- D 8

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9 **What does a steep graph of gas volume against time show?**

A a reaction with no gas made

B a reaction that has finished

C a fast rate of reaction

D a slow rate of reaction

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10 **A student heats 50 g of water. Its temperature rises by 10 degrees Celsius. The specific heat capacity of water is 4.2 joules per gram per degree Celsius. How much energy is transferred to the water in kilojoules?**

A 2.1 kJ

B 21 kJ

C 4.2 kJ

D 0.21 kJ

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ANSWER KEY

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

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