ENGLAND GCSE CHEMISTRY OCR GATEWAY HIGHER · UNIT 5 · 10 QUESTIONS

Monitoring and Controlling Chemical Reactions — 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 thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

A 100

B 0

C 10

D 32

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2 **A sandwich contains bread and cheese. Where does digestion begin?**

- A in the stomach
- B in the small intestine
- C in the large intestine
- D in the mouth

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3 **A cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?**

- A a chemical change
- B a reversible reaction
- C an energy transfer
- D a neutralisation

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

- A a reaction that has finished
- B a reaction with no gas made
- C a fast rate of reaction
- D a slow rate of reaction

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5 **In an experiment, 60 cubic centimetres of gas are made in 10 seconds. What is the rate of the reaction?**

- A 12 cm^3/s
- B 3 cm^3/s
- C 6 cm^3/s
- D 600 cm^3/s

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6 **A reaction should make 100 g of product but only makes 50 g. What is the percentage yield?**

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

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7 **For an exothermic forward reaction, what happens to the yield if the temperature rises?**

- A the reaction stops
- B it rises
- C it stays the same
- D it falls

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8 **A wristwatch ticks every second. How many ticks in a minute?**

- A 100
- B 30
- C 12
- D 60

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9 **What catalyst is used in the Haber process?**

- A platinum
- B iron
- C nickel
- D copper

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10 **In a second experiment, 90 cm cubed of gas are made in 30 seconds. What is the rate of the reaction?**

A 4.5 cm^3/s

B 3.5 cm^3/s

C 2.5 cm^3/s

D 3 cm^3/s

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ANSWER KEY

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

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