ENGLAND GCSE CHEMISTRY AQA HIGHER · UNIT 6 · 10 QUESTIONS

The Rate and Extent of Chemical Change — 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 cup of coffee is left for an hour. What happens to its temperature?**

- A it falls to zero degrees
- B it rises above room temperature
- C it falls to room temperature
- D it stays the same all day

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2 **A passenger train brakes. What force slows it down?**

- A lift
- B friction
- C thrust
- D gravity, pulling it down

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3 **A reaction produces 20 cm cubed of gas in 20 seconds. What is the mean rate of reaction?**

- A 1 cm^3/s
- B 2 cm^3/s
- C 1.5 cm^3/s
- D 0.5 cm^3/s

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4 **A kite rises higher. What happens to the wind speed usually?**

- A it stays the same
- B it increases
- C it becomes zero
- D it decreases

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5 **A reaction makes 1 moles of gas. What volume does the gas occupy at room temperature and pressure?**

- A 12 dm^3
- B 24 dm^3
- C 48 dm^3
- D 36 dm^3

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6 **A yellow school bus carries children to school. Which blood vessel carries blood away from the heart, like a bus leaving the station?**

- A a capillary
- B a vein
- C an artery
- D a ventricle

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7 **What happens to the yield of ammonia if more nitrogen is added?**

- A it stays the same
- B it increases
- C the reaction stops
- D it decreases

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8 **In an experiment, 20 cubic centimetres of gas are made in 20 seconds. What is the rate of the reaction?**

- A 2 cm^3/s
- B 1 cm^3/s
- C 0.5 cm^3/s
- D 400 cm^3/s

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9 **Why is the mass of a reaction flask measured on a balance?**

- A the flask gets heavier as it reacts
- B the balance shows the temperature
- C the mass shows the pH change
- D gas escaping makes the mass fall

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10 **Why does a higher concentration increase the rate?**

- A particles get bigger
- B the activation energy falls a lot
- C collisions happen more often
- D particles move faster

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ANSWER KEY

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

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