ENGLAND GCSE CHEMISTRY AQA HIGHER · UNIT 5 · 10 QUESTIONS

Energy Changes — 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 sandwich provides energy. Which process releases energy from food in cells?**

- A photosynthesis
- B digestion
- C respiration
- D fermentation

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2 **A chocolate cake is made from flour, sugar and eggs. Which ingredient provides protein?**

- A flour
- B eggs
- C sugar
- D water

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3 **An ice cream cone melts. What is the melting point of the ice cream?**

A around minus 20 degrees Celsius

B around 37 degrees Celsius

C around 100 degrees Celsius

D around 0 degrees Celsius

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4 **In a reaction, the energy needed to break bonds is 1000 kJ and the energy released making bonds is 1200 kJ. What is the overall energy change?**

A -200 kJ

B 200 kJ

C -1000 kJ

D 1200 kJ

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5 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 32
- B 0
- C 10
- D 100

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6 **What is a rechargeable cell?**

- A a cell that makes electricity from light
- B a cell that can never be used again
- C a cell that can be charged again
- D a cell that runs out very quickly

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7 **A cup of coffee is left for an hour. What happens to its temperature?**

A it stays the same all day

B it falls to zero degrees

C it falls to room temperature

D it rises above room temperature

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8 **How does a catalyst change a reaction profile?**

A it raises the peak

B it lowers the peak

C it raises the reactants

D it lowers the products

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9 **A student heats 200 g of water. Its temperature rises by 5 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 4.2 kJ
- B 42 kJ
- C 0.42 kJ
- D 8.4 kJ

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10 **What is one disadvantage of hydrogen fuel cells?**

- A they are noisy when running
- B they make carbon dioxide
- C hydrogen is hard to store
- D they use a lot of water

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ANSWER KEY

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

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