ENGLAND GCSE CHEMISTRY EDEXCEL HIGHER · UNIT 4 · 10 QUESTIONS

Extracting Metals and Equilibria — 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 sugar freezes
- B the egg evaporates
- C a gas is made
- D the flour melts

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2 **An ice cream cone melts in the Sun. What is happening to the particles in the ice cream?**

- A they get smaller
- B they stop moving
- C they lose energy and slow down a lot
- D they gain energy and move more

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

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

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4 **What is the pressure used in the Haber process?**

A 1 atmosphere

B 1000 atmospheres

C 10 atmospheres

D 200 atmospheres

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5 **Why does a catalyst not change the yield of a reaction?**

A it is used up in the reaction

B it changes the equilibrium position

C it speeds up both directions equally

D it slows the forward reaction down a lot

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6 **What happens to an equilibrium if the temperature is raised?**

A it shifts to the exothermic side, releasing heat

B the reaction stops completely at once

C it stays exactly where it was before

D it shifts to the endothermic side

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7 **What is reduction?**

A gain of a metal from an ore

B gain of oxygen by a substance

C loss of oxygen

D loss of a metal from an ore

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8 **Lemons taste sour. What does sour taste show?**

A a metal is present

B a salt is present

C an alkali is present

D an acid is present

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9 **Silver coins are made of a metal. Which property do metals have?**

A they do not conduct electricity at all

B they conduct electricity

C they are brittle

D they dissolve in water

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10 **In the Haber process, 1 mole of nitrogen reacts with 3 moles of hydrogen. How many moles of hydrogen react with 4 moles of nitrogen?**

A 13

B 12

C 11

D 24

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ANSWER KEY

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

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