ENGLAND GCSE CHEMISTRY AQA FOUNDATION · UNIT 8 · 10 QUESTIONS

Chemical Analysis — 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 **Lemons contain citric acid. What do acids make with metals?**

- A a salt and water, never hydrogen
- B a salt and oxygen gas
- C a salt and hydrogen
- D water only, nothing else

Understand It with Pulse | Flag a mistake

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

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

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3 **What is seen when sodium hydroxide is added to iron(II) sulfate solution?**

A a brown precipitate forms at once

B a green precipitate

C a blue precipitate forms at once

D a white precipitate forms at once

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4 **Paintbrushes are used with paint. What is paint an example of?**

A a pure substance

B an element

C a compound

D a formulation

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5 **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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6 **What does mass spectrometry measure?**

A the temperature of a sample

B the colours of a flame

C the masses of particles

D the volume of a gas

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7 **How many atoms of hydrogen are there in one molecule of ammonia?**

A 3

B 5

C 2

D 4

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8 **What colour flame does potassium give in a flame test?**

A brick red

B yellow

C green

D lilac

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9 **Glass marbles are used to model atoms. What is a limitation of the model?**

A marbles cannot be counted accurately at all

B marbles are too small to see properly

C marbles are the wrong colour for atoms

D marbles are much bigger than atoms

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10 **In a chromatogram, a spot moves 5 cm and the solvent moves 8 cm. What is the Rf value?**

A 1.25

B 0.72

C 0.78

D 0.62

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ANSWER KEY

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

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