ENGLAND GCSE CHEMISTRY AQA HIGHER · 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 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

- A particles move freely through space
- B particles flow past each other easily
- C particles are far apart from each other
- D particles vibrate in fixed positions

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2 **Paintbrushes apply paint to a wall. What is the paint made of?**

- A a mixture of substances
- B a single compound, nothing else
- C a single element, nothing else
- D pure water with nothing in it

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3 **A cup of coffee is hot. How is energy transferred to the air?**

- A by condensation on the cold cup
- B by evaporation only, from the top
- C by conduction and convection
- D by radiation only, from the surface

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4 **In a chromatogram, a spot moves 6 cm and the solvent moves 12 cm. What is the Rf value?**

- A 0.65
- B 0.6
- C 1
- D 0.5

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

- A a blue precipitate forms at once
- B a white precipitate forms at once
- C a brown precipitate forms at once
- D a green precipitate

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6 **What does an Rf value of 0 mean?**

- A the spot moved with the solvent
- B the spot dissolved completely
- C the solvent did not move at all
- D the spot did not move

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7 **Which of these is a formulation?**

A salt

B oxygen

C water

D paint

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8 **In a chromatogram, a spot moves 3 cm and the solvent moves 10 cm. What is the Rf value?**

A 0.6

B 0.3

C 0.45

D 0.4

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9 **How many atoms of hydrogen are there in one molecule of water?**

A 3

B 4

C 1

D 2

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

A they lose energy and slow down a lot

B they stop moving

C they get smaller

D they gain energy and move more

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ANSWER KEY

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

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