ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 11 · 10 QUESTIONS

States of Matter and Mixtures — 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 room temperature

B it falls to zero degrees

C it stays the same all day

D it rises above room temperature

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2 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

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

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3 **Lemons contain citric acid. What is the pH of lemon juice likely to be?**

- A 2
- B 7
- C 14
- D 12

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4 **In which state can particles flow but stay close together?**

A gas

B liquid

C solid

D plasma

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

A yellow

B brick red

C lilac

D green

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6 **What is chromatography used for in the food industry?**

A keeping food cold longer

B making food taste better

C checking dyes in food

D heating food more quickly

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

A around minus 20 degrees Celsius

B around 100 degrees Celsius

C around 0 degrees Celsius

D around 37 degrees Celsius

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8 **A hot air balloon rises because the air inside it is less dense than the air outside. What happens to the density of air when it is heated?**

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

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9 **A sample containing potassium is put in a flame. What colour is the flame?**

- A lilac
- B crimson red
- C bright yellow
- D orange-red flame

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10 **In a chromatogram, a spot moves 4 cm and the solvent moves 8 cm. What is the Rf value?**

A 0.65

B 0.6

C 1

D 0.5

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ANSWER KEY

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

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