ENGLAND GCSE CHEMISTRY EDEXCEL HIGHER · UNIT 2 · 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 swimming pool is heated. What happens to the water particles?**

- A they get smaller
- B they disappear
- C they stop moving
- D they move faster

Understand It with Pulse | Flag a mistake

2 **Lemons contain citric acid. What do acids make with metals?**

A water only, nothing else

B a salt and oxygen gas

C a salt and hydrogen

D a salt and water, never hydrogen

Understand It with Pulse | Flag a mistake

3 **A sample containing calcium is put in a flame. What colour is the flame?**

A orange-red

B pale lilac

C crimson red

D bright yellow

Understand It with Pulse | Flag a mistake

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

A water

B salt

C oxygen

D paint

Understand It with Pulse | Flag a mistake

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

A by conduction and convection

B by radiation only, from the surface

C by condensation on the cold cup

D by evaporation only, from the top

Understand It with Pulse | Flag a mistake

6 **Which change of state is endothermic?**

A condensing

B solidifying

C melting

D freezing

Understand It with Pulse | Flag a mistake

7 **In a chromatogram, a spot moves 6 cm and the solvent moves 8 cm. What is the Rf value?**

A 0.9

B 0.85

C 1.5

D 0.75

Understand It with Pulse | Flag a mistake

8 **Why do different dyes have different Rf values?**

A they move at the same speed

B they dissolve differently in the solvent

C they have the same solubility in the solvent

D they are all the same colour

Understand It with Pulse | Flag a mistake

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

A marbles are the wrong colour for atoms

B marbles are much bigger than atoms

C marbles cannot be counted accurately at all

D marbles are too small to see properly

Understand It with Pulse | Flag a mistake

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

A a single element, nothing else

B a single compound, nothing else

C a mixture of substances

D pure water with nothing in it

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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