ENGLAND GCSE CHEMISTRY EDEXCEL FOUNDATION · UNIT 9 · 25 QUESTIONS

Separate Chemistry 2 — 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 are shaken in a tray. What does this model?**

- A particles disappearing completely
- B particles gaining energy
- C particles freezing into place
- D particles bonding together

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2 **A forest absorbs carbon dioxide. Which process does this?**

- A respiration in the trees
- B combustion of the wood
- C decomposition in the soil
- D photosynthesis

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3 **An ice cream cone is put in a freezer. What happens to the liquid?**

A it condenses

B it boils

C it evaporates

D it freezes

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

A a salt is present

B an alkali is present

C an acid is present

D a metal is present

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5 **A swimming pool is heated. What happens to the water particles?**

A they get smaller

B they stop moving

C they move faster

D they disappear

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

A pure water with nothing in it

B a single element, nothing else

C a mixture of substances

D a single compound, nothing else

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7 **Why are instrumental methods better than chemical tests?**

A they are cheap and need no training at all

B they work on solids only

C they are fast, sensitive and accurate

D they need no sample at all

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8 **A chocolate cake is made from flour, sugar and eggs. Which ingredient provides protein?**

A sugar

B water

C flour

D eggs

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9 **Which metal gives a yellow flame?**

A lithium

B copper

C potassium

D sodium

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10 **What is seen when sodium hydroxide is added to aluminium chloride solution?**

A a white precipitate

B a green precipitate forms at once

C a blue precipitate forms at once

D a brown precipitate forms at once

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11 **What is a nanoparticle?**

A a particle smaller than an atom

B a particle 1 to 100 nanometres across

C a particle the size of a grain of sand

D a particle made only of carbon

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12 **A cup of coffee is left for an hour. What happens to its temperature?**

A it falls to zero degrees

B it falls to room temperature

C it rises above room temperature

D it stays the same all day

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13 **A hot air balloon is filled with hot air. Why does it rise?**

A hot air is colder

B hot air is heavier than cold air

C hot air has no mass

D hot air is less dense

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14 **What is seen when dilute acid is added to a carbonate?**

A bubbles of carbon dioxide

B the solution turns yellow

C a white precipitate forms

D a blue precipitate forms

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15 **How is ethanol made by fermentation?**

- A yeast turns sugar into ethanol
- B ethene reacts with steam directly
- C bacteria turn ethanol into sugar
- D ethanol is distilled from crude oil

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16 **What is made when a carboxylic acid reacts with an alcohol?**

- A a salt and water only
- B an ester and water
- C a salt and hydrogen
- D an alkane and oxygen

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17 **Which of these is a use of nanoparticles in medicine?**

A blocking X-rays in scans

B carrying drugs to cells

C making tablets much bigger

D cooling the body down quickly

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18 **Why is carbon fibre used in aircraft parts?**

A it melts at a low temperature

B it is the cheapest material

C it is strong for its mass

D it is easy to recycle

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19 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

A 10

B 100

C 0

D 32

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20 **What is ethanoic acid found in?**

A petrol, a fuel for cars

B soap, a cleaning product

C lemon juice, a citrus fruit

D vinegar

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21 **What happens if oxygen gets into a fermenting mixture?**

- A the yeast respires instead
- B the yeast dies at once
- C the ethanol turns to vinegar at once
- D the mixture boils straight away

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22 **Why are instrumental methods used to test athletes?**

- A they can find tiny amounts of drugs
- B they work without a sample
- C they give results in seconds
- D they are cheap to run anywhere in the world

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23 **What colour flame does potassium give?**

- A lilac
- B green
- C crimson
- D yellow

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

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

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25

Why is the safety of nanoparticles hard to test?

A they are too small to see at all

B their effects build up slowly

C they cannot be made in a lab

D they disappear in a few minutes

Understand It with Pulse

Flag a mistake

ANSWER KEY

1.	B	**10.**	A	**19.**	C
2.	D	**11.**	B	**20.**	D
3.	D	**12.**	B	**21.**	A
4.	C	**13.**	D	**22.**	A
5.	C	**14.**	A	**23.**	A
6.	C	**15.**	A	**24.**	C
7.	C	**16.**	B	**25.**	B
8.	D	**17.**	B		
9.	D	**18.**	C		

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