ENGLAND GCSE CHEMISTRY EDEXCEL HIGHER · UNIT 5 · 25 QUESTIONS

Separate Chemistry 1 — 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 hot. How is energy transferred to the air?**

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

Understand It with Pulse | Flag a mistake

2 **Hardcover books are stacked on a table. What force pulls them down?**

- A friction
- B tension
- C air resistance
- D gravity

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3 **Silver coins are made of the element silver. What is the chemical symbol for silver?**

- A S
- B Sv
- C Ag
- D Si

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4 **A calculator uses a battery. What energy is stored in the battery?**

- A chemical energy
- B light energy from the Sun
- C thermal energy from heat
- D kinetic energy of motion

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5 **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 gain energy and move more
- C they get smaller
- D they stop moving

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

- A an alkali is present
- B an acid is present
- C a metal is present
- D a salt is present

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7 **The maximum possible mass of copper sulfate is 60 g. A student makes 54 g. What is the percentage yield?**

A 80%

B 180%

C 100%

D 90%

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8 **Why is water the only waste product of a hydrogen fuel cell?**

A oxygen absorbs the waste products

B the cell filters out all waste gases

C the fuel cell runs on pure water

D hydrogen burns cleanly in oxygen

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9 **What is galvanising?**

A coating iron with plastic

B coating iron with copper

C coating iron with zinc

D coating iron with paint

Understand It with Pulse | Flag a mistake

10 **Why is 200 atmospheres used in the Haber process, not a much higher pressure?**

A higher pressures cost too much

B ammonia cannot form above 200 atmospheres

C nitrogen escapes at higher pressures

D the catalyst breaks at higher pressures

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11 **What must a system be for equilibrium to be reached?**

- A very hot
- B stirred all the time
- C open to the air
- D closed

Understand It with Pulse | Flag a mistake

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

- A 32
- B 100
- C 0
- D 10

Understand It with Pulse | Flag a mistake

13 **How is ammonia made for fertilisers?**

A by the Haber process

B by distilling crude oil

C by filtering river water

D by burning natural gas

Understand It with Pulse | Flag a mistake

14 **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 vibrate in fixed positions

C particles are far apart from each other

D particles move freely through space

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15 **What volume does 3 moles of hydrogen occupy at room temperature and pressure?**

A 84 dm^3

B 72 dm^3

C 60 dm^3

D 96 dm^3

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16 **What colour is copper sulfate solution?**

A brown

B blue

C green

D colourless

Understand It with Pulse | Flag a mistake

17 **What mass of potassium hydroxide is needed to make 200 cm cubed of a 0.5 mol per cubic decimetre solution?**

A 16.8 g

B 2.8 g

C 11.2 g

D 5.6 g

Understand It with Pulse | Flag a mistake

18 **A chocolate cake rises in the oven. What makes it rise?**

A the flour melts

B the egg evaporates

C the sugar freezes

D a gas is made

Understand It with Pulse | Flag a mistake

19 **What happens if the concentration of a reactant is increased?**

A equilibrium moves to make more reactant

B the yield falls to zero

C equilibrium moves to use it up

D the reaction stops at once

Understand It with Pulse | Flag a mistake

20 **Why is stainless steel used for cutlery?**

A it is very cheap to make

B it is magnetic and light

C it is very soft to shape

D it does not rust

Understand It with Pulse | Flag a mistake

21 **What is a rechargeable cell?**

A a cell that runs out very quickly

B a cell that can be charged again

C a cell that makes electricity from light

D a cell that can never be used again

Understand It with Pulse | Flag a mistake

22 **What does adding carbon to iron do?**

A it makes it harder

B it makes it conduct less heat

C it makes it melt more easily

D it makes it softer and weaker

Understand It with Pulse | Flag a mistake

23 **A castle wall is made of stone. What type of rock is limestone?**

- A sedimentary
- B volcanic
- C metamorphic
- D igneous

Understand It with Pulse | Flag a mistake

24 **A student adds 20 cm cubed of 0.6 mol per cubic decimetre nitric acid to a flask. It exactly neutralises 30 cm cubed of potassium hydroxide solution. What is the concentration of the potassium hydroxide solution?**

- A 0.4 mol/dm³
- B 0.2 mol/dm³
- C 0.8 mol/dm³
- D 1.2 mol/dm³

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25 **Calcium carbonate breaks down to make calcium oxide and carbon dioxide. The mass of calcium carbonate is 100 g and the mass of calcium oxide made is 56 g. What is the atom economy?**

A 44%%

B 100%%

C 56%%

D 75%%

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ANSWER KEY

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

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