ENGLAND GCSE CHEMISTRY OCR GATEWAY FOUNDATION · UNIT 6 · 25 QUESTIONS

Global Challenges — 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 castle is built of limestone. What is limestone made of?**

- A magnesium oxide, a white powder
- B calcium sulfate, found in plaster
- C calcium carbonate
- D sodium chloride, common salt

Understand It with Pulse | Flag a mistake

2 **A sailing ship uses the wind. What type of energy is wind?**

- A potential energy
- B chemical energy
- C kinetic energy
- D thermal energy

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3 **A forest is cut down. What happens to the carbon stored in the trees?**

A it turns to oxygen

B it disappears

C it is released

D it is stored forever

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4 **Fishing boats catch fish. What trophic level are the fish?**

A plants

B consumers

C producers

D decomposers

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5 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A impossible to tell
- B below normal
- C exactly normal
- D above normal

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6 **A river flows to the sea. What is this part of?**

- A the carbon cycle
- B the rock cycle
- C the water cycle
- D the nitrogen cycle

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7 **A town uses 2000 litres of water per day. How much water does it use in one week?**

- A 28000 L
- B 13000 L
- C 14000 L
- D 15000 L

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8 **Oxygen is 21 percent of the air. How much oxygen is there in 100 litres of air?**

- A 31 L
- B 21 L
- C 42 L
- D 11 L

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9 **What is an addition reaction?**

A a reaction where water is removed

B a reaction where molecules join together

C a reaction where a gas is given off

D a reaction where a molecule splits apart into pieces

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10 **Carbon dioxide levels rose from 320 ppm to 440 ppm. What is the increase?**

A 120 ppm

B 100 ppm

C 140 ppm

D 160 ppm

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11 **Where did the water in the oceans come from?**

A rain from the clouds in the sky

B ice melting at the poles

C rivers flowing from the land

D water vapour from volcanoes

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12 **What is rust?**

A iron sulfate from acid rain

B pure iron metal with no oxygen

C hydrated iron oxide

D iron carbonate from the air

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13 **Nitrogen is 78 percent of the air. How much nitrogen is there in 100 litres of air?**

A 156 L

B 88 L

C 68 L

D 78 L

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14 **Why are nitrogen oxides a problem?**

A they cause acid rain and smog

B they warm the Earth directly

C they poison drinking water fast

D they damage the ozone layer

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15 **A cheese pizza contains cheese made from milk. What is milk rich in?**

A vitamin C

B fibre

C iron

D calcium

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16 **A town recycles 25 percent of its 400 tonnes of waste. How many tonnes are recycled?**

A 80 tonnes

B 120 tonnes

C 100 tonnes

D 150 tonnes

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17 **What is an alkene?**

A a hydrocarbon with a triple bond

B a hydrocarbon with no bonds

C a saturated hydrocarbon

D a hydrocarbon with a double bond

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18 **A factory emits 50 tonnes of carbon dioxide per day. How much does it emit in one week?**

A 700 tonnes

B 360 tonnes

C 350 tonnes

D 340 tonnes

Understand It with Pulse | Flag a mistake

19 **Which stage of a life cycle assessment covers digging up raw materials?**

A extraction

B use

C manufacture

D disposal

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20 **Why does the Earth have seasons?**

A the tilt of the Earth's axis

B the rotation of the Earth

C the distance from the Sun changing

D the Moon's orbit

Understand It with Pulse | Flag a mistake

21 **A chocolate cake is baked. Is baking a chemical change?**

- A yes
- B no
- C never
- D sometimes

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22 **What is the main greenhouse gas?**

- A carbon dioxide
- B nitrogen gas from the air
- C oxygen gas from the air
- D argon gas from the air

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

A by conduction and convection

B by condensation on the cold cup

C by radiation only, from the surface

D by evaporation only, from the top

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24 **How is salt removed from sea water?**

A by chlorination

B by filtration

C by distillation

D by sedimentation

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25 **Which fraction is used for road surfaces?**

A naphtha

B kerosene

C bitumen

D petrol

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ANSWER KEY

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

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