ENGLAND GCSE CHEMISTRY AQA FOUNDATION · UNIT 9 · 25 QUESTIONS

Chemistry of the Atmosphere — 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 forest provides a habitat. What does habitat mean?**

- A where an organism lives
- B what an organism eats
- C how an organism breeds
- D when an organism sleeps

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

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

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3 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it evaporates
- B it expands
- C it contracts
- D it freezes

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4 **A river provides drinking water. Why must the water be treated before drinking?**

- A to add minerals for health
- B to heat it up for use
- C to remove harmful substances
- D to make it taste better for drinking

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

A producers

B plants

C consumers

D decomposers

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

A kinetic energy

B chemical energy

C potential energy

D thermal energy

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7 **What happens to sea levels as the Earth warms?**

A they fall

B they rise

C they stay the same

D they disappear

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8 **How has the atmosphere changed?**

A carbon dioxide has increased

B nitrogen has increased over time

C argon has increased over time

D oxygen has increased over time

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9 **What is one piece of evidence for climate change?**

A volcanoes are erupting more

B global temperatures are rising

C the Moon is getting closer

D the Sun is getting brighter each year

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10 **Nitrogen is 78 percent of the air. How much nitrogen is there in 1000 litres of air?**

A 790 L

B 780 L

C 1560 L

D 770 L

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11 **Carbon dioxide levels rose from 280 ppm to 420 ppm. What is the increase?**

- A 140 ppm
- B 180 ppm
- C 160 ppm
- D 120 ppm

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

- A 360 tonnes
- B 700 tonnes
- C 340 tonnes
- D 350 tonnes

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13 **Which human activity releases methane?**

A burning coal

B planting trees

C driving electric cars

D farming cattle

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14 **Oxygen is 21 percent of the air. How much oxygen is there in 500 litres of air?**

A 95 L

B 105 L

C 210 L

D 115 L

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15 **About what percentage of the air is oxygen?**

A 21%

B 78%

C 1%

D 0.04%

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16 **How did the oceans form?**

A the Earth cooled and cracked open

B rivers filled the low land

C water vapour condensed and fell as rain

D ice melted at the poles long ago over time

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17 **How does sulfur dioxide harm the environment?**

A it causes acid rain

B it poisons the oceans at once

C it damages the ozone layer

D it warms the Earth directly

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18 **Carbon dioxide is 280 parts per million in the air. How many carbon dioxide molecules are there per million air molecules?**

A 28

B 2800

C 260

D 280

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19 **What is the carbon cycle?**

A the movement of carbon between living things and the air

B the movement of oxygen between plants and animals

C the movement of nitrogen between the soil and the air

D the movement of water between the sea, the air, the land and living things

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20 **What is the ozone layer?**

A a layer that absorbs ultraviolet

B a layer that absorbs visible light

C a layer that absorbs sound

D a layer that absorbs infrared

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21 **What is one effect of climate change on weather?**

A less rain everywhere

B more extreme weather

C weather stays the same

D colder summers everywhere

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

A 160 ppm

B 140 ppm

C 100 ppm

D 120 ppm

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23 **Which gases are greenhouse gases?**

- A oxygen and water vapour only
- B carbon dioxide and methane
- C oxygen and nitrogen in the air
- D nitrogen and argon

Understand It with Pulse | Flag a mistake

24 **Which gas causes acid rain?**

- A carbon dioxide
- B nitrogen
- C oxygen
- D sulfur dioxide

Understand It with Pulse | Flag a mistake

25 **Oxygen is 21 percent of the air. How much oxygen is there in 1000 litres of air?**

A 210 L

B 420 L

C 220 L

D 200 L

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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