ENGLAND GCSE CHEMISTRY EDEXCEL FOUNDATION · UNIT 8 · 25 QUESTIONS

Fuels and Earth Science — 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 cools down. Energy is transferred to the surroundings. What type of change is this?**

- A a reversible reaction
- B a chemical change
- C a neutralisation
- D an energy transfer

Understand It with Pulse | Flag a mistake

2 **A river is polluted by fertiliser. What grows too fast in the water?**

- A reeds
- B fish
- C algae
- D trees

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3 **Fishing boats float on water. Why do they float?**

A they displace enough water

B they are made of metal, which floats

C they are heavy and sink slowly

D they have sails that catch the wind

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

A 32

B 100

C 10

D 0

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5 **A forest provides a habitat. What does habitat mean?**

A what an organism eats

B when an organism sleeps

C how an organism breeds

D where an organism lives

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

A sometimes

B no

C yes

D never

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7 **A sailing ship floats. What force pushes it up?**

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

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8 **What is one effect of climate change?**

- A sea levels rising
- B less rain everywhere
- C colder winters everywhere
- D the air getting cleaner

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9 **What is the enhanced greenhouse effect?**

A warming from the Sun getting hotter over time

B cooling from extra cloud cover

C warming from volcanoes erupting

D extra warming from human activities

Understand It with Pulse | Flag a mistake

10 **A castle built of limestone is damaged by acid rain. Which gas causes acid rain?**

A sulfur dioxide

B carbon dioxide

C oxygen

D nitrogen

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11 **Carbon dioxide is 420 parts per million in the air. How many carbon dioxide molecules are there per million air molecules?**

A 400

B 4200

C 420

D 42

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12 **What are alkenes used to make?**

A polymers

B acids for cleaning

C salts for cooking

D fuels for cars and lorries

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

A 11 L

B 21 L

C 42 L

D 31 L

Understand It with Pulse | Flag a mistake

14 **An alkane with 8 carbon atoms is cracked. One product is an alkene with 3 carbon atoms. How many carbon atoms does the other product have?**

A 6

B 4

C 5

D 7

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15 **How did the oceans form?**

- A the Earth cooled and cracked open
- B ice melted at the poles long ago over time
- C water vapour condensed and fell as rain
- D rivers filled the low land

Understand It with Pulse | Flag a mistake

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

- A the distance from the Sun changing
- B the rotation of the Earth
- C the Moon's orbit
- D the tilt of the Earth's axis

Understand It with Pulse | Flag a mistake

17 **What does the greenhouse effect do?**

A it stops the Sun shining

B it makes the Earth cold

C it keeps the Earth warm

D it makes the Earth spin

Understand It with Pulse | Flag a mistake

18 **Where do particulates in the air come from?**

A rain falling from clouds

B burning fuels and dust

C evaporation from the sea

D photosynthesis in plants

Understand It with Pulse | Flag a mistake

19 **Which fraction is used as fuel for cars?**

A diesel

B bitumen

C kerosene

D petrol

Understand It with Pulse | Flag a mistake

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

A 78 L

B 156 L

C 88 L

D 68 L

Understand It with Pulse | Flag a mistake

21 **Which alkane has the lowest boiling point?**

A ethane

B methane

C propane

D butane

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22 **Carbon dioxide levels rose from 320 ppm to 420 ppm. What is the increase?**

A 100 ppm

B 80 ppm

C 140 ppm

D 120 ppm

Understand It with Pulse | Flag a mistake

23 **What is a biodegradable polymer?**

- A a polymer that dissolves in water
- B a polymer that breaks down naturally
- C a polymer that melts very easily
- D a polymer that never breaks down at all

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24 **What is made when ethene reacts with steam?**

- A ethanoic acid, a weak acid
- B carbon dioxide and water
- C ethane, a saturated gas
- D ethanol

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25

A cheese pizza provides energy. Which nutrient provides most energy?

A protein

B fat

C vitamins

D fibre

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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