ENGLAND GCSE CHEMISTRY EDEXCEL HIGHER · 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 forest absorbs carbon dioxide. Which process does this?**

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

Understand It with Pulse | Flag a mistake

2 **A sailing ship crosses the sea. What is the sea mostly made of?**

- A salt water
- B fresh water
- C oil
- D sand

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3 **A cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?**

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

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

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

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5 **A castle is built of limestone. What is limestone made of?**

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

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

- A the egg evaporates
- B a gas is made
- C the sugar freezes
- D the flour melts

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7 **What is a biodegradable polymer?**

A a polymer that breaks down naturally

B a polymer that melts very easily

C a polymer that never breaks down at all

D a polymer that dissolves in water

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8 **A factory emits 10 tonnes of carbon dioxide per day. How much does it emit in one week?**

A 60 tonnes

B 140 tonnes

C 70 tonnes

D 80 tonnes

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9 **How do humans increase carbon dioxide?**

A by planting trees

B by using solar power to make electricity

C by burning fossil fuels

D by recycling waste

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

A bitumen

B kerosene

C petrol

D diesel

Understand It with Pulse | Flag a mistake

11 **What is the test for an alkene?**

A bromine water turns colourless

B limewater turns cloudy with gas

C universal indicator turns red in acid

D a lighted splint pops loudly

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12 **What happens to the boiling point of alkanes as the molecules get bigger?**

A it decreases

B it falls to zero

C it increases

D it stays the same

Understand It with Pulse | Flag a mistake

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

- A 400
- B 420
- C 4200
- D 42

Understand It with Pulse | Flag a mistake

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

- A rain falling from clouds
- B photosynthesis in plants
- C burning fuels and dust
- D evaporation from the sea

Understand It with Pulse | Flag a mistake

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

A the Sun is getting brighter each year

B volcanoes are erupting more

C the Moon is getting closer

D global temperatures are rising

Understand It with Pulse | Flag a mistake

16 **An alkane with 8 carbon atoms is cracked. One product is an alkene with 2 carbon atoms. How many carbon atoms does the other product have?**

A 6

B 7

C 5

D 8

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

A 200 L

B 420 L

C 220 L

D 210 L

Understand It with Pulse | Flag a mistake

18 **An alkane has 6 carbon atoms. How many hydrogen atoms does one molecule have?**

A 12

B 10

C 14

D 16

Understand It with Pulse | Flag a mistake

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

- A plants
- B producers
- C decomposers
- D consumers

Understand It with Pulse | Flag a mistake

20 **What is the relative formula mass of the alkane C_4H_{10}?**

- A 58
- B 60
- C 56
- D 70

Understand It with Pulse | Flag a mistake

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

A nitrogen gas from the air

B argon gas from the air

C carbon dioxide

D oxygen gas from the air

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

A warming from the Sun getting hotter over time

B cooling from extra cloud cover

C extra warming from human activities

D warming from volcanoes erupting

Understand It with Pulse | Flag a mistake

23 **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

Understand It with Pulse | Flag a mistake

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

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

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

A 780 L

B 1560 L

C 790 L

D 770 L

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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