ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 14 · 25 QUESTIONS

Organic Chemistry — 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 **Fishing boats use diesel. What is diesel made from?**

- A water, from the sea
- B coal, mined from the ground
- C wood, cut from trees
- D crude oil

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

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

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

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

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4 **A chocolate cake is made from flour, sugar and eggs. Which ingredient provides protein?**

- A sugar
- B water
- C eggs
- D flour

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

- A calcium
- B vitamin C
- C iron
- D fibre

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

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

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7 **What is the relative formula mass of the alkane C_2H_6?**

- **A** 42
- **B** 28
- **C** 30
- **D** 32

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8 **An alkane with 10 carbon atoms is cracked. One product is an alkene with 2 carbon atoms. How many carbon atoms does the other product have?**

- **A** 8
- **B** 9
- **C** 10
- **D** 7

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9 **What is the monomer of poly(propene)?**

- A propene
- B propane
- C ethene
- D butene

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10 **What is the general formula of the alkanes?**

- A CnH_2n+_1
- B CnH_2n+_2
- C CnH_2n
- D CnH_2n-_2

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11 **An alkane has 3 carbon atoms. How many hydrogen atoms does one molecule have?**

A 4

B 10

C 6

D 8

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12 **What is poly(ethene) made from?**

A ethanoic acid

B ethanol

C ethene

D ethane

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13 **In fractional distillation, where do the smallest molecules come out?**

A at the bottom

B in the middle

C at the top

D they do not come out

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

A bromine water turns colourless

B a lighted splint pops loudly

C universal indicator turns red in acid

D limewater turns cloudy with gas

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

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

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16 **An alkane with 10 carbon atoms is cracked. One product is an alkene with 3 carbon atoms. How many carbon atoms does the other product have?**

- **A** 7
- **B** 9
- **C** 6
- **D** 8

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

A butane

B propane

C ethane

D methane

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18 **An alkane has 7 carbon atoms. How many hydrogen atoms does one molecule have?**

A 18

B 12

C 16

D 14

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19 **What is cracking?**

- A breaking long alkanes into shorter ones
- B dissolving alkanes in water to clean them
- C joining short alkanes together to make longer ones
- D burning alkanes in air to release energy

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20 **What is the relative formula mass of the alkane C_3H_8?**

- A 42
- B 44
- C 46
- D 56

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21 **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** 4
- **B** 5
- **C** 6
- **D** 7

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22 **What is the formula of ethane?**

- **A** C_2H_6
- **B** C_2H_4
- **C** C_3H_8
- **D** CH_4

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23 **An alkane has 5 carbon atoms. How many hydrogen atoms does one molecule have?**

- A 12
- B 8
- C 10
- D 14

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

- A salts for cooking
- B acids for cleaning
- C fuels for cars and lorries
- D polymers

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25

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

A 10

B 11

C 13

D 12

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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