ENGLAND GCSE CHEMISTRY AQA FOUNDATION · UNIT 7 · 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 **A river flows to the sea. What is this part of?**

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

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2 **A cup of coffee is left for an hour. What happens to its temperature?**

- A it falls to room temperature
- B it rises above room temperature
- C it stays the same all day
- D it falls to zero degrees

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3 **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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4 **Fishing boats float on water. Why do they float?**

- A they have sails that catch the wind
- B they displace enough water
- C they are made of metal, which floats
- D they are heavy and sink slowly

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

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

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

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

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7 **What is an ester?**

A a compound made from two alcohols mixed together

B a compound made from an acid and an alcohol

C a compound made from two acids mixed together

D a compound made from an alkane and water

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

A 14

B 16

C 12

D 10

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9 **What is the formula of ethene?**

- A C_2H_4
- B C_2H_6
- C C_3H_6
- D CH_4

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

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

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

A it falls to zero

B it increases

C it decreases

D it stays the same

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

A petrol

B kerosene

C bitumen

D diesel

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13 **Why are biodegradable polymers useful?**

A they are much stronger than others

B they do not pile up as waste

C they conduct electricity better

D they are cheaper to make always

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14 **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 7

B 5

C 6

D 8

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

A ethane

B ethene

C ethanoic acid

D ethanol

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16 **Why is fermentation done at a low temperature?**

A high temperatures kill the yeast

B yeast only works when it is cold

C ethanol boils at a low temperature

D low temperatures make more ethanol

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17 **What is polymerisation?**

A dissolving polymers in water

B breaking polymers into monomers again

C joining monomers to make a polymer

D burning polymers in oxygen

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18 **What conditions are used to make ethanol from ethene?**

A steam and a catalyst

B cold water and no catalyst

C hydrogen and a cold catalyst

D oxygen and a very high pressure

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19 **What is the formula of ethanoic acid?**

- A CH_4
- B CH_3COOH
- C C_3H_7COOH
- D C_2H_5OH

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20 **What is the general formula of the alkenes?**

- A CnH_2n
- B CnH_2n+_2
- C $CnHn$
- D CnH_2n-_2

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

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

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

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

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23 **What is a biodegradable polymer?**

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

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24 **An alkane with 10 carbon atoms is cracked. One product is an alkene with 4 carbon atoms. How many carbon atoms does the other product have?**

- **A** 7
- **B** 6
- **C** 5
- **D** 8

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25

What does ethanol burn to make?

A carbon and hydrogen

B oxygen and water only

C carbon dioxide and water

D carbon monoxide and hydrogen

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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