ENGLAND GCSE CHEMISTRY AQA HIGHER · 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 sailing ship crosses the sea. What is the sea mostly made of?**

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

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

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

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

A flour

B water

C sugar

D eggs

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4 **A cheese pizza is cooked in an oven. How is energy transferred in the oven?**

A by evaporation from the cheese

B by conduction only, through the tray

C by radiation and convection

D by condensation on the oven walls

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

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

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

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

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

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

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

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

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9 **What is a polyester made from?**

A a diol and a dicarboxylic acid

B an alkene and nothing else

C an alcohol and water only

D two alkanes joined together in a chain

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

A ethene

B propane

C propene

D butene

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

- A propane
- B butane
- C ethane
- D methane

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12 **An alkane with 12 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 10
- C 8
- D 9

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

A at the top

B in the middle

C they do not come out

D at the bottom

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14 **What is polymerisation?**

A joining monomers to make a polymer

B dissolving polymers in water

C burning polymers in oxygen

D breaking polymers into monomers again

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

A cold water and no catalyst

B oxygen and a very high pressure

C hydrogen and a cold catalyst

D steam and a catalyst

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16 **What does ethanol burn to make?**

A carbon monoxide and hydrogen

B carbon and hydrogen

C carbon dioxide and water

D oxygen and water only

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

A 8

B 10

C 4

D 6

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

A C_2H_4

B C_3H_6

C C_2H_6

D CH_4

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19 **What is poly(ethene) used for?**

A plastic bags and bottles

B car tyres and rubber seals

C electrical cables and wires

D non-stick cooking pans

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20 **What small molecule is lost in condensation polymerisation?**

A hydrogen gas

B water

C oxygen gas

D carbon dioxide gas

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

A it decreases

B it falls to zero

C it stays the same

D it increases

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22 **An alkane with 14 carbon atoms is cracked. One product is an alkene with 2 carbon atoms. How many carbon atoms does the other product have?**

A 12

B 14

C 13

D 11

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23 **What is cracking?**

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

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24 **What is an addition reaction?**

- A a reaction where water is removed
- B a reaction where a molecule splits apart into pieces
- C a reaction where molecules join together
- D a reaction where a gas is given off

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25

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

A 10

B 14

C 12

D 16

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Flag a mistake

ANSWER KEY

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

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