



Organic Chemistry Multiple Choice Questions

Set 1

You may use a periodic table to help you answer these questions.

Tick **one** box.

1. Which of these is a finite resource?

- A. biofuel
- B. cotton
- C. crude oil
- D. wood

2. What name is given to molecules which contain only carbon and hydrogen atoms?

- A. carbohydrates
- B. carbonhydrogenates
- C. hydrocarbons
- D. hydrogencarbonates

3. What is the general formula for an alkane?

- A. C_nH_n
- B. C_nH_{2n}
- C. C_nH_{2n+1}
- D. C_nH_{2n+2}

4. Why can fractional distillation be used to separate crude oil?

- A. crude oil does not burn
- B. crude oil only contains a small number of hydrocarbons
- C. each fraction has a different boiling point
- D. some hydrocarbons in crude oil are solids

5. What is the trend in the boiling point of hydrocarbons as the size of the hydrocarbon molecule increases?

- A. the boiling point decreases
- B. the boiling point increases
- C. the boiling point stays the same
- D. there is no clear relationship between the boiling point and the size of the molecule



6. What are the products of the complete combustion of methane?
- A. carbon dioxide and hydrogen
 - B. carbon dioxide and oxygen
 - C. carbon dioxide and water
 - D. carbon dioxide only
7. Which useful products are made from chemicals extracted from crude oil?
- A. lubricants
 - B. polymers
 - C. solvents
 - D. all the above
8. What is the name of the process by which large hydrocarbon molecules are broken down into smaller hydrocarbon molecules?
- A. combustion
 - B. cracking
 - C. fractional distillation
 - D. reduction
9. Which reagent is used to test for the presence of alkenes?
- A. Benedict's reagent
 - B. bromine water
 - C. iodine
 - D. universal indicator
10. What colour change is observed in the test for an alkene?
- A. blue to red
 - B. brown to black
 - C. green to red
 - D. orange to colourless