PRINCE EDWARD ISLAND CHEMISTRY 11 · UNIT C

# Organic Chemistry — Practice Test

**Prince Edward Island Chemistry 11 • 25 questions**

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 to let Brett know so he can fix it.

1 **An alkane has 1 carbon atoms. Using the formula C n H 2n plus 2, how many hydrogen atoms does the alkane have**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An alkane with 1 carbon atoms has a molar mass in grams per mole of 12 times the carbon atoms plus 1 times the hydrogen atoms. What is its molar mass, using hydrogen atoms from the alkane formula**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An alkene has 2 carbon atoms. Using the formula C n H 2n, how many hydrogen atoms does the alkene have**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Complete combustion of an alkane with 1 carbon atoms produces how many carbon dioxide molecules per alkane molecule**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A polymer is a large molecule made from many repeating**

A atoms only

B ions only

C solvent molecules

D monomer units

Understand It with Pulse | Flag a mistake

6 **An alkane contains only**

A single bonds

B double bonds

C triple bonds

D ionic bonds

Understand It with Pulse | Flag a mistake

7 **An alkene contains at least one**

A triple bond

B double bond

C ionic bond

D single bond only

Understand It with Pulse | Flag a mistake

8 **An alkyne contains at least one**

A double bond

B ionic bond

C triple bond

D single bond only

Understand It with Pulse | Flag a mistake

9 **Benzene is an example of an**

A alkane

B aromatic hydrocarbon

C alkene only

D alcohol

Understand It with Pulse | Flag a mistake

10 **Butane is an alkane with how many carbon atoms**

A 2

B 3

C 5

D 4

Understand It with Pulse | Flag a mistake

11 **Complete combustion of a hydrocarbon in oxygen produces carbon dioxide and**

A carbon monoxide only

B water

C hydrogen only

D oxygen

Understand It with Pulse | Flag a mistake

12 **Crude oil is separated by fractional distillation based on differences in**

A melting point only

B density only

C boiling point

D colour

Understand It with Pulse | Flag a mistake

13 **Ethane is an alkane with how many carbon atoms**

A 1

B 2

C 3

D 4

Understand It with Pulse | Flag a mistake

14 **Ethanoic acid is an example of a**

A carboxylic acid

B alcohol

C alkane

D alkene

Understand It with Pulse | Flag a mistake

15 **Ethanol is an example of an**

A alkane

B alkene

C carboxylic acid

D alcohol

Understand It with Pulse | Flag a mistake

16 **Isomers are compounds with the same molecular formula but different**

A molar masses

B numbers of atoms

C structures

D elements

Understand It with Pulse | Flag a mistake

17 **Methane is an alkane with how many carbon atoms**

A 1

B 2

C 3

D 4

Understand It with Pulse | Flag a mistake

18 **An alkane has 2 carbon atoms. Using the formula C n H 2n plus 2, how many hydrogen atoms does the alkane have**

ANSWER

Understand It with Pulse | Flag a mistake

19 **An alkane with 2 carbon atoms has a molar mass in grams per mole of 12 times the carbon atoms plus 1 times the hydrogen atoms. What is its molar mass, using hydrogen atoms from the alkane formula**

ANSWER

Understand It with Pulse | Flag a mistake

20 **An alkene has 3 carbon atoms. Using the formula C n H 2n, how many hydrogen atoms does the alkene have**

ANSWER

Understand It with Pulse | Flag a mistake

21 **Complete combustion of an alkane with 2 carbon atoms produces how many carbon dioxide molecules per alkane molecule**

ANSWER

Understand It with Pulse | Flag a mistake

22 **An alkane has 3 carbon atoms. Using the formula C n H 2n plus 2, how many hydrogen atoms does the alkane have**

ANSWER

Understand It with Pulse | Flag a mistake

23 **An alkane with 3 carbon atoms has a molar mass in grams per mole of 12 times the carbon atoms plus 1 times the hydrogen atoms. What is its molar mass, using hydrogen atoms from the alkane formula**

ANSWER

Understand It with Pulse | Flag a mistake

24 **An alkene has 4 carbon atoms. Using the formula C n H 2n, how many hydrogen atoms does the alkene have**

ANSWER

Understand It with Pulse | Flag a mistake

25 **Complete combustion of an alkane with 3 carbon atoms produces how many carbon dioxide molecules per alkane molecule**

ANSWER

Understand It with Pulse | Flag a mistake

# ANSWER KEY

1. 4
2. 16
3. 4
4. 1
5. D
6. A
7. B
8. C
9. B
10. D
11. B
12. C
13. B
14. A
15. D
16. C
17. A
18. 6
19. 30
20. 6
21. 2
22. 8
23. 44
24. 8
25. 3

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