CHEMISTRY 2202 · NEWFOUNDLAND AND LABRADOR

Chemistry 2202

Practice Test

Unit C: Organic Chemistry

25 Questions

Original practice test based on the Newfoundland and Labrador curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

An alkane with 5 carbon atoms has how many hydrogen atoms?

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Question 2

An alkene with one double bond and 5 carbon atoms has how many hydrogen atoms?

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Question 3

Use the standard definition. The name of CH_4 is

A) ethane

B) propane

C) methane

D) butane

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Question 4

Apply the definition carefully. The functional group OH is found in

A) an alkane

B) an alkene

C) a carboxylic acid

D) an alcohol

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Question 5

Consider the meaning of the term. The functional group COOH is found in

A) a carboxylic acid

B) an alcohol

C) an alkane

D) an ester

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Question 6

Review the key idea. Complete combustion of a hydrocarbon produces

A) carbon monoxide only

B) carbon dioxide and water

C) hydrogen gas only

D) oxygen gas only

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Question 7

Check the definition first. Isomers have the same molecular formula but

A) different numbers of atoms

B) different elements

C) different structures

D) different molar masses

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Question 8

Start from the definition. An alkene is unsaturated because it contains

A) only single bonds

B) no carbon atoms

C) only hydrogen atoms

D) a double bond

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Question 9

Remember how the term is defined. Benzene is an example of

A) an aromatic hydrocarbon

B) an alkane

C) an alcohol

D) a carboxylic acid

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Question 10

The molar mass of ethanol, C_2H_6O, in grams per mole, is

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Question 11

Think about the rule. The name of C_2H_6 is

A) propane

B) methane

C) ethane

D) butane

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Question 12

Recall the rule. An alkene reacts with bromine water by

A) forming a salt only

B) producing no change

C) burning completely

D) decolourising it in an addition reaction

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Question 13

Apply the rule. An ester is formed from

A) a carboxylic acid and an alcohol

B) two alkanes

C) an alkene and water only

D) two metals

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Question 14

Consider the rule in general. A polymer is made by joining many

A) atoms of one element only

B) monomers

C) ions in a lattice

D) solvent molecules

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Question 15

An alkane with 4 carbon atoms has how many hydrogen atoms?

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Question 16

An alkene with one double bond and 6 carbon atoms has how many hydrogen atoms?

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Question 17

Recall the concept. The name of CH_4 is

A) methane

B) ethane

C) propane

D) butane

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Question 18

Apply the concept. The functional group OH is found in

A) an alkane

B) an alcohol

C) an alkene

D) a carboxylic acid

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Question 19

Consider the concept in general. The functional group COOH is found in

A) an alcohol

B) an alkane

C) a carboxylic acid

D) an ester

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Question 20

Review the concept. Complete combustion of a hydrocarbon produces

A) carbon monoxide only

B) hydrogen gas only

C) oxygen gas only

D) carbon dioxide and water

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Question 21

Think about the principle. Isomers have the same molecular formula but

A) different structures

B) different numbers of atoms

C) different elements

D) different molar masses

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Question 22

Recall the principle. An alkene is unsaturated because it contains

A) only single bonds

B) a double bond

C) no carbon atoms

D) only hydrogen atoms

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Question 23

Apply the principle. Benzene is an example of

A) an alkane

B) an alcohol

C) an aromatic hydrocarbon

D) a carboxylic acid

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Question 24

Consider the principle in general. The molar mass of ethanol, C_2H_6O, in grams per mole, is

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Question 25

Review the principle. The name of C_3H_8 is

A) propane

B) butane

C) ethane

D) methane

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Flag a mistake

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ANSWER KEY

1.	12	**10.**	46	**18.**	B
2.	10	**11.**	C	**19.**	C
3.	C	**12.**	D	**20.**	D
4.	D	**13.**	A	**21.**	A
5.	A	**14.**	B	**22.**	B
6.	B	**15.**	10	**23.**	C
7.	C	**16.**	12	**24.**	46
8.	D	**17.**	A	**25.**	A
9.	A				

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