NOVA SCOTIA CHEMISTRY 11 · UNIT C

Organic Chemistry — Practice Test

Nova Scotia 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 5 carbon atoms. The number of hydrogen atoms in the alkane is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An alkane has 3 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An alkene with one double bond has 4 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A carboxylic acid functional group is**

- A hydroxyl
- B amino
- C carboxyl
- D ester only

Understand It with Pulse | Flag a mistake

5 **A hydrocarbon sample burns to give 6 moles of carbon dioxide from 2 moles of hydrocarbon. The carbons per molecule are**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A polymer is a large molecule made from many**

A ions

B salts

C acids only

D monomers

Understand It with Pulse | Flag a mistake

7 **A substitution reaction on an alkane**

A adds a double bond

B removes carbon

C replaces an atom with another atom or group

D forms an acid only

Understand It with Pulse | Flag a mistake

8 **An addition reaction across a double bond**

- A removes all atoms
- B adds atoms to both carbons
- C forms a ring only
- D makes a polymer only

Understand It with Pulse | Flag a mistake

9 **An alcohol functional group is**

- A carboxyl
- B hydroxyl
- C amino
- D carbonyl only

Understand It with Pulse | Flag a mistake

10 **An alkane contains only**

A single bonds between carbons

B double bonds

C triple bonds

D rings only

Understand It with Pulse | Flag a mistake

11 **An alkane has 12 hydrogen atoms. The number of carbon atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **An alkene contains at least one**

A carbon-carbon triple bond

B carbon-carbon double bond

C oxygen atom

D ring only

Understand It with Pulse | Flag a mistake

13 **An alkyne contains at least one**

A carbon-carbon double bond

B single bond only

C carbon-carbon triple bond

D benzene ring

Understand It with Pulse | Flag a mistake

14 **An alkyne with one triple bond has 4 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **An ester is formed from an acid and an**

A alcohol

B alkane

C metal

D alkene only

Understand It with Pulse | Flag a mistake

16 **Benzene is an example of an**

A alkane

B aromatic hydrocarbon

C alcohol

D acid

Understand It with Pulse | Flag a mistake

17 **Complete combustion of a hydrocarbon in oxygen produces**

A carbon dioxide and water

B carbon monoxide only

C hydrogen only

D oxygen only

Understand It with Pulse | Flag a mistake

18 **Cracking breaks large hydrocarbon molecules into**

A elements only

B polymers

C smaller useful molecules

D acids only

Understand It with Pulse | Flag a mistake

19 **Fractional distillation separates hydrocarbons by**

A colour

B mass only

C density only

D boiling point

Understand It with Pulse | Flag a mistake

20 **An alkane has 6 carbon atoms. The number of hydrogen atoms in the alkane is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An alkane has 9 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **An alkene with one double bond has 5 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An alkane has 7 carbon atoms. The number of hydrogen atoms in the alkane is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An alkane has 10 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **An alkene with one double bond has 6 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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