NOVA SCOTIA ADVANCED CHEMISTRY 11 · UNIT C

Organic Chemistry — Practice Test

Nova Scotia Advanced 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 **A branched alkane has 11 carbon atoms. The hydrogen count for the alkane formula is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A branched alkane has 12 carbon atoms. The hydrogen count for the alkane formula is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A branched alkane has 13 carbon atoms. The hydrogen count for the alkane formula is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A cycloalkane has 8 carbon atoms. The hydrogen count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A cycloalkane has 9 carbon atoms. The hydrogen count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **An alkyne with one triple bond has 6 carbon atoms. The hydrogen count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **An alkene with two double bonds has 6 carbon atoms. The hydrogen count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A branched alkane is named by finding the**

A shortest chain

B longest continuous carbon chain

C first branch only

D last carbon only

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9 **A methyl group attached to a chain is a**

A functional group only

B substituent

C main chain

D product

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10 **Structural isomers of pentane include a branched form called**

- A hexane
- B propane
- C methylbutane
- D ethene

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11 **Geometric isomers differ in the arrangement around a**

- A single bond only
- B triple bond only
- C ring only
- D double bond

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12 **Cis but-2-ene has the two methyl groups on the**

- A same side of the double bond
- B opposite sides
- C same carbon
- D ring

Understand It with Pulse | Flag a mistake

13 **Trans but-2-ene has the two methyl groups on**

- A the same side
- B opposite sides of the double bond
- C the same carbon
- D a ring

Understand It with Pulse | Flag a mistake

14 **An addition reaction with bromine turns bromine water from orange to**

A blue

B green

C colourless

D black

Understand It with Pulse | Flag a mistake

15 **Bromine water stays orange with an alkane in the dark because alkanes are**

A unsaturated

B aromatic

C ionic

D saturated

Understand It with Pulse | Flag a mistake

16 **A primary alcohol has its hydroxyl group on a carbon bonded to**

A one other carbon

B two other carbons

C three other carbons

D no carbons

Understand It with Pulse | Flag a mistake

17 **Oxidation of a primary alcohol first gives an**

A ketone

B aldehyde

C acid only

D ester only

Understand It with Pulse | Flag a mistake

18 **Oxidation of a secondary alcohol gives a**

A aldehyde

B acid

C ketone

D alkane

Understand It with Pulse | Flag a mistake

19 **A carboxylic acid reacts with a base to give a salt and**

A hydrogen

B oxygen

C an alkane

D water

Understand It with Pulse | Flag a mistake

20 **An ester linkage is found in fats and in many**

A flavour compounds

B metals

C salts only

D acids only

Understand It with Pulse | Flag a mistake

21 **A polymer formed by addition has the same empirical formula as its**

A solvent

B monomer

C catalyst

D product only

Understand It with Pulse | Flag a mistake

22 **Condensation polymerisation joins monomers with loss of a**

A carbon atom

B metal ion

C small molecule such as water

D large polymer

Understand It with Pulse | Flag a mistake

23 **A diol contains two hydroxyl groups and a triol contains**

A two hydroxyl groups

B one hydroxyl group

C four hydroxyl groups

D three hydroxyl groups

Understand It with Pulse | Flag a mistake

24 **Esterification is a reaction between a carboxylic acid and an**

- A alcohol
- B alkane
- C alkene
- D amine

Understand It with Pulse | Flag a mistake

25 **Hydrolysis of an ester gives a carboxylic acid and an**

- A alkane
- B alcohol
- C alkene
- D salt only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	24	**10.**	C	**19.**	D
2.	26	**11.**	D	**20.**	A
3.	28	**12.**	A	**21.**	B
4.	16	**13.**	B	**22.**	C
5.	18	**14.**	C	**23.**	D
6.	10	**15.**	D	**24.**	A
7.	10	**16.**	A	**25.**	B
8.	B	**17.**	B		
9.	B	**18.**	C		

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