ORGANIC CHEMISTRY - PRACTICE TEST | NEW BRUNSWICK CHEMISTRY 121-122 · UNIT D · 25 QUESTIONS

Organic Chemistry — Practice Test

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 3 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A benzene ring is an example of an**

A. alkane

B. alkene only

C. aromatic compound

D. alcohol

Understand It with Pulse | Flag a mistake

3 **A carboxylic acid with 1 carbon atom is methanoic acid. Its formula CH_2O_2 has how many oxygen atoms**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A hydrocarbon burns to produce carbon dioxide and water. For methane 1 mole produces 1 mole of carbon dioxide. For 4 moles of methane the carbon dioxide in moles is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A molecule C_3H_8O has how many atoms in total**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Alkanes contain only single bonds and are described as**

A saturated

B unsaturated

C aromatic

D ionic

Understand It with Pulse | Flag a mistake

7 **Alkenes contain at least one double bond and are described as**

A saturated

B unsaturated

C aromatic

D ionic

Understand It with Pulse | Flag a mistake

8 **Amines contain the functional group with**

A oxygen only

B sulfur only

C phosphorus only

D nitrogen

Understand It with Pulse | Flag a mistake

9 **An alcohol with 2 carbon atoms has the formula C_2H_6O. The total atoms in one molecule is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An alkane has 5 carbon atoms. By the formula C_nH_{2n} plus 2, the number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **An alkyne contains at least one**

A triple bond

B single bond only

C double bond

D ionic bond

Understand It with Pulse | Flag a mistake

12 **Benzene has 6 carbon atoms and 6 hydrogen atoms. The total atoms in one molecule is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Butane has a molar mass of 58 grams per mole. Two moles have a mass in grams of**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Combustion in plenty of oxygen produces carbon dioxide and**

A carbon monoxide only

B soot only

C water

D hydrogen

Understand It with Pulse | Flag a mistake

15 **Cracking breaks long hydrocarbons into**

A shorter ones

B longer ones

C aromatic only

D ionic ones

Understand It with Pulse | Flag a mistake

16 **Esters are formed from an alcohol and a**

A alkane

B carboxylic acid

C alkene

D amine

Understand It with Pulse | Flag a mistake

17 **Ethane has a molar mass of 30 grams per mole. Three moles have a mass in grams of**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Ethanol has a molar mass of 46 grams per mole. One mole has a mass in grams of**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Ethanol is used as a fuel and a**

A solvent

B acid

C base

D salt

Understand It with Pulse | Flag a mistake

20 **Ethene has a molar mass of 28 grams per mole. Three moles have a mass in grams of**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Ethene has 2 carbon atoms and 4 hydrogen atoms. The total atoms in one molecule is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Fractional distillation separates crude oil by**

A colour

B density only

C mass only

D boiling point

Understand It with Pulse | Flag a mistake

23 **Isomers have the same molecular formula but different**

- A molar mass
- B structure
- C atom count
- D element count

Understand It with Pulse | Flag a mistake

24 **An alkane has 8 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **An alkane has 4 carbon atoms. The number of hydrogen atoms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	8	**10.**	12	**19.**	A
2.	C	**11.**	A	**20.**	84
3.	2	**12.**	12	**21.**	6
4.	4	**13.**	116	**22.**	D
5.	12	**14.**	C	**23.**	B
6.	A	**15.**	A	**24.**	18
7.	B	**16.**	B	**25.**	10
8.	D	**17.**	90		
9.	9	**18.**	46		

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