

CH:9 organic chemistry

1	Organic compounds must contain			
	Oxygen	Nitrogen	Hydrogen	Carbon
2	Which formula represents saturated hydrocarbon			
	C_2H_2	C_3H_8	C_3H_6	C_4H_6
3	How many carbon atoms are present per molecule in the compound 3-methyl-4-ethyloctane? how many of those are present on the side chains (branches) only?			
	11 total : 3 on branches	15 total : 7 on branches	11 total : 3 on branches	15 total : 2 on branches
4	How many hydrogen atoms would be part of one molecule of pentane			
	5	8	10	12
5	The general formula for the alkane series is			
	C_nH_{2n+2}	C_nH_{2n-2}	C_nH_{2n}	C_nH_n
6	$C_2H_4 + Br_2 = ?$ what reaction occurs when the above chemicals react?			
	Substitution	Addition	Elimination	Hydrolysis
7	A compound with the formula C_6H_6			
	Hexane	Pentane	Benzene	3-methyl butane
8	Which formula represents an unsaturated hydrocarbon			
	C_2H_2	C_4H_{10}	C_5H_{12}	CH_4
9	$C_2H_6 + O_2 = ?$ What reaction occurs when the above chemicals react?			
	combustion	Addition	Elimination	Hydrolysis
10	$2C_2H_6 + 7O_2 = \dots + \dots$ What reaction occurs when the above chemicals react?			
	$2CO_2 + 3H_2O$	$4CO_2 + 6H_2O$	$4CO + 3H_2O$	$6CO_2 + 4H_2O$
11	$CH_4 + Cl_2 = ?$ What reaction occurs when the above chemicals react?			
	Halogenation	Addition	Elimination	Hydrolysis
12	How many hydrogen atoms would be part of one molecule of heptane			
	7	14	16	18
13	How many carbon atoms would be part of one molecule of hexane			
	3	6	9	12
14	$CH_4 + Cl_2 = \dots + HCl$			
	CH_3Cl	CH_2Cl_2	$CHCl_3$	$CHCl_3$
15	The structure of the above represent			
	$\begin{array}{c} CH_3 - CH - CH_2 - CH_2 - CH_3 \\ \\ CH_3 \end{array}$			
	2methyl - pentane	4-methyl- pentane	2-methyl - hexane	4-methyl-hexa
16	the structure of the above represent			
	$\begin{array}{c} CH_3 \quad CH_2 - CH_3 \\ \quad \\ CH_3 - CH_2 - CH_2 - C - CH - CH_2 - CH_3 \\ \\ CH_3 \end{array}$			
	3-ethyl-4,4dimethyl heptane	4-ethyl-3,3dimethyl heptane	3-ethyl-4 dimethyl heptane	3-ethyl-4,4dimethyl octane
17	the structure of the above represent			
	$\begin{array}{c} CH_2 - CH_2 \\ \quad \\ Br \quad Br \end{array}$			
	1,1 di bromo-ethane	1,1 di bromo-ethene	1,1 di bromo-ethyne	1,2 di bromo-ethane

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18	the structure of the above represent $ \begin{array}{ccccccc} & & & \text{Br} & & & \\ & & & & & & \\ \text{CH}_3 & \text{CH} & \text{CH} & \text{CH}_2 & \text{CH}_3 & & \\ & & & & & & \\ & \text{CH}_3 & & \text{Cl} & & & \end{array} $			
	3 bromo-2chloro-4methyl-pentane	3 bromo-2chloro-4methyl-butane	4 bromo-3chloro-2methyl-pentane	3 bromo-2chloro-4methyl-hexane
19	How many carbon atoms would be part of one molecule of decane			
	5	8	10	12

good luck

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