○ a carboxylic acid	
○ an ector	
<ul><li>○ an ester</li><li>○ a ketone</li></ul>	
<ul><li>an ether</li><li>an aldehyde</li></ul>	
Question 2	1 pts
What is the name of C <sub>6</sub> H <sub>14</sub> ?  Oheptane	
pentane	
o propane hexene	
○ hexane	
Question 3	1 pts
Which of the following has the greatest molar mass?	
<ul><li>butane</li><li>hexane</li></ul>	
propane pentane	
octane octane	
ononane heptane	
Question 4	1 pts
Which of the following has the greatest molar mass?	ı pts
butane	
<ul><li>butene</li><li>pentane</li></ul>	
methane	
o propane o pentene	
What is the carbon chain product of the elimination reaction beginning with the re	1 pts
What is the carbon chain product of the elimination reaction beginning with the reshown below?	zactant
Br Hint: the eliminated product is HBr. What is left?	
O HC≡CH	
○ H <sub>2</sub> C=CH <sub>2</sub> ○ CHBr=CHBr	
○ CH <sub>2</sub> Br—CH <sub>2</sub> Br	
Question 6	1 pts
What best describes the functional group on this molecule?	
ОН	
<ul><li>primary alcohol</li><li>secondary alcohol</li></ul>	
O ether	
amine carboxylic acid	
<ul><li>aldehyde</li><li>ketone</li></ul>	
alcohol	
<ul><li>alcohol</li><li>amine</li></ul>	
	1 pts
o amine	1 pts
o amine  Question 8	1 pts
Question 8  What is the functional group on this molecule?  alcohol	1 pts
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone	1 pts
Question 8  What is the functional group on this molecule?  alcohol ether	1 pts
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone	1 pts
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?	
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9	
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?	
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?	
Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  NH2  primary amine	
Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?	
Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  Primary amine carboxylic acid	
Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  Primary amine carboxylic acid ketone aldehyde	
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  F  P  primary amine carboxylic acid ketone aldehyde secondary amine  secondary amine	1 pts
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  Primary amine carboxylic acid ketone aldehyde secondary amine	1 pts
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  Primary amine carboxylic acid ketone aldehyde aldehyde secondary amine  Question 10  You are asked to identify the ketone on a large organic molecule. What characte	1 pts
amine  Question 8  What is the functional group on this molecule?    alcohol     ether     ketone     aldehyde    Question 9  Look at this big molecule. What is the functional group on the top right?    NH2     F     F     primary amine     carboxylic acid     ketone     aldehyde     secondary amine    Question 10  You are asked to identify the ketone on a large organic molecule. What character are you looking for?     a carbon with a double bond to oxygen and a single bond to an alcohol group	1 pts
amine  Question 8  What is the functional group on this molecule?    alcohol	1 pts
amine  Question 8  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  primary amine carboxylic acid ketone aldehyde secondary amine  Question 10  You are asked to identify the ketone on a large organic molecule. What character are you looking for?  a carbon with a double bond to oxygen and a single bond to an alcohol group an oxygen bonded to carbon and hydrogen an oxygen double bonded to a terminal carbon an oxygen double bonded to a non-terminal carbon	1 pts
Question 8  What is the functional group on this molecule?    alcohol	1 pts
amine  Question 8  What is the functional group on this molecule?    alcohol     ether     ketone     aldehyde      Duestion 9    Look at this big molecule. What is the functional group on the top right?     F     primary amine     carboxylic acid     ketone     aldehyde     secondary amine      Question 10    You are asked to identify the ketone on a large organic molecule. What character are you looking for?     a carbon with a double bond to oxygen and a single bond to an alcohol group     an oxygen double bonded to a terminal carbon     a noxygen double bonded to a non-terminal carbon     a carbon-carbon double bond     Question 11  Which of the following is a carboxylic acid functional group?     R-OH	1 pts
amine  Question 8  What is the functional group on this molecule?    alcohol	1 pts
amine  Question 8  What is the functional group on this molecule?    alcohol     ether     ketone     aldehyde    Question 9  Look at this big molecule. What is the functional group on the top right?    NiH₂     primary amine     carboxylic acid     ketone     aldehyde     secondary amine    Question 10  You are asked to identify the ketone on a large organic molecule. What characte are you looking for?   a carbon with a double bond to oxygen and a single bond to an alcohol group     an oxygen double bonded to a terminal carbon     an oxygen double bonded to a reminal carbon     an oxygen double bonded to a reminal carbon     a carbon-carbon double bond     Question 11  Which of the following is a carboxylic acid functional group?   R-OH     R-CO	1 pts
amine  Question 3  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  Primary amine carboxylic acid ketone aldehyde secondary amine  Question 10  You are asked to identify the ketone on a large organic molecule. What characterie you looking for?  a carbon with a double bond to oxygen and a single bond to an alcohol group an oxygen bonded to carbon and hydrogen an oxygen double bonded to a terminal carbon a carbon-carbon double bond a carbon-carbon double bond Question 11  Which of the following is a carboxylic acid functional group?  R.CH R.CO R.NH <sub>3</sub> R.CHO	1 pts
amine  Question 3  What is the functional group on this molecule?  alcohol ether ketone aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  Primary amine carboxylic acid ketone aldehyde secondary amine  Question 10  You are asked to identify the ketone on a large organic molecule. What characterie you looking for?  a carbon with a double bond to oxygen and a single bond to an alcohol group an oxygen bonded to carbon and hydrogen an oxygen double bonded to a terminal carbon a carbon-carbon double bond a carbon-carbon double bond Question 11  Which of the following is a carboxylic acid functional group?  R.CH R.CO R.NH <sub>3</sub> R.CHO	1 pts
Question 8  What is the functional group on this molecule?  aldohol altohol primary amine  primary amine  carboxylic acid ketone altohyde secondary amine  Question 10  You are asked to identify the ketone on a large organic molecule. What character are you looking for?  a carbon with a double bond to oxygen and a single bond to an alcohol group an oxygen bonded to carbon and hydrogen an oxygen double bonded to a mon-terminal carbon a carbon-carbon double bond Question 11  Which of the following is a carboxylic acid functional group?  R-CO R-CO R-COO R-COOH  Question 12  The following two choices both have the formula, C <sub>2</sub> H <sub>6</sub> O. Which is dimethyl ether	1 pts 1 pts 1 pts
amine  Question 8  What is the functional group on this molecule?  alcohol  alcohol  alcohol  ether  ketone  aldehyde  Question 9  Look at this big molecule. What is the functional group on the top right?  primary amine  carbonylic acid  ketone  alcelyde  secondary amine  Question 10  You are asked to identify the ketone on a large organic molecule. What character are you looking for?  a carbon with a double bond to oxygen and a single bond to an alcohol group  an oxygen bonded to carbon and hydrogen  an oxygen double bonded to a terminal carbon  an oxygen double bonded to a non-terminal carbon  an oxygen double bonded to a non-terminal carbon  an oxygen double bonded to a non-terminal carbon  an oxygen double bonded to a reminal carbon  an oxygen bonded to carbon and hydrogen  and oxygen bonded to carbon and hydrogen  an oxygen bonded to a reminal carbon  an oxygen bonded to carbon and hydrogen  an oxygen bonded to a reminal carbon  an oxygen bonded to oxygen and a single bond to an alcohol group  an oxygen bonded to a reminal carbon  an oxygen bonded to oxygen and a single bond to an alcohol group  an oxygen bonded to a reminal carbon  an oxy	1 pts 1 pts 1 pts
Question 8  What is the functional group on this molecule?    Compared to the functional group on this molecule?	1 pts 1 pts 1 pts

What is the molecular formula of acetaminophen?

of the hydrogen and carbon atoms omitted.

∠CH<sub>3</sub>

What is the molecular formula of this structure?

The following structure is the carbon skeleton for a structural isomer of octane with most

How many single bonds and double bonds (respectively) are represented by this

The active ingredient in some oral anesthetics used in sore throat sprays. What is the

What are three functional groups in the following molecule?

methoxy (ether group with a terminal methyl group)

 $Br_2$ 

Br

anion. What type of process is this?

**Question 19** 

heterolytic cleavage

homolytic cleavage

The following addition reaction will proceed when bromine forms two radicals via homolytic cleavage. The radicals then react with ethene to form which product?

An alkyl halide is placed in solvent and breaks apart to form a carbocation and a halide

1 pts

1 pts

1 pts

1 pts

1 pts

1 pts

○ C<sub>8</sub>H<sub>5</sub>NO<sub>2</sub>

○ C<sub>8</sub>H<sub>11</sub>NO<sub>2</sub>

○ C<sub>8</sub>H<sub>8</sub>NO

 $\bigcirc$  C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>

**Question 14** 

H<sub>3</sub>C

 $H_3C$ 

○ C<sub>8</sub>H<sub>24</sub>

 $\bigcirc$  C<sub>8</sub>H<sub>8</sub>

○ C<sub>8</sub>H<sub>16</sub>

 $\bigcirc \ C_8H_{18}$ 

**Question 15** 

condensed formula?

**12, 14** 

**15, 4** 

11, 7

**15, 14** 

**12, 4** 

**Question 16** 

QН

50 g/mol

17 g/mol

89 g/mol

94 g/mol

**Question 17** 

carbonyl

alcohol

aldehyde

indole

primary amine

**Question 18** 

secondary amine

molar mass of phenol?

Consider the structural formula of phenol.

Consider the following structure: