Note: If there is no coefficient, the coefficient is an understood 1.	
856	
63410	
Question 2	4 pts
Hydrogen peroxide (H_2O_2) liquid decomposes into hydrogen gas and oxygen of the following represents this reaction? Note: phases are omitted in the answer choices, but do remember the standard	
hydrogen and oxygen gas. $ \bigcirc \ H_2O_2 \! \to H_2 \! + O_2 $ $ \bigcirc \ H_2 \! + O_2 \! \to H_2O_2 $	
Question 3	4 pts
In which state of matter are the molecules all spread out? This means the distribution between the molecules is much larger than the size of the molecules themselves all spread out? This means the distribution of the molecules is much larger than the size of the molecules themselves all spread out? This means the distribution of the molecules is much larger than the size of the molecules themselves all spread out? This means the distribution of the molecules is much larger than the size of the molecules themselves all spread out?	
O gas O liquid O solid	
Question 4	4 pts
What are the key physical properties of solids? the molecules are very close to each other molecules are in static positions relative to neighboring molecules	
 molecules are in constant translational motion relative to each other molecules are very far apart from each other molecules are very close to each other but also move considerably among themselves 	es
Question 5	4 pts
Which of the following substances listed has the smallest percentage in the method the typical composition of air here in Austin, TX on a humid day? O argon (Ar)	nake up of
 nitrogen (N₂) oxygen (O₂) carbon dioxide (CO₂) 	
Owardings 0	
Which of the following layers of the atmosphere is closest to the ground? Troposphere	4 pts
Ozone Stratosphere Mesosphere	
Question 7	4 pts
Which of the following simple ratios of nitrogen to oxygen is the most accurate describing the air on this planet. (ratios are all written as nitrogen : oxygen)	e for
<pre>0 4:1 0 1:2 0 2:1</pre>	
O 2:1 O 3:2 O 3:1	
Question 8 Which of the following substances is most variable in our atmosphere?	4 pts
Which of the following substances is most variable in our atmosphere? Output Water vapor Carbon dioxide	
NitrogenArgon	
Question 9 $\label{eq:Question9}$ What is the name and the approximate molar mass of C $_5H_{12}$?	4 pts
Heptane, 74 g/molPentane, 68 g/mole	
Hexane, 72 g/molPentane, 72 g/molPentane, 74 g/molHexane, 86 g/mol	
Hexane, 86 g/molPentonium, 72 g/mol	
Question 10 Which carbon compound contains the fewest carbon atoms?	4 pts
MethaneHexanePropane	
O Chlorobutane	
Question 11 According to Boyle's Law, pressure and volume have a(n)	4 pts
 indirect relationship direct relationship inverse relationship 	
O none of these are correct Question 12	4 pts
A container holding an ideal gas is compressed to half its original volume at contemperature. According to Boyle's Law, the pressure of the gas	
halvesdoublestriples	
o triples o quadruples	
Question 13 An inflated balloon has a volume equal to 2.3 L at 20°C. When the temperature	4 pts
An inflated balloon has a volume equal to 2.3 L at 20°C. When the temperature reduced to 10°C, the volume Odoubles	re is
is halveddecreases by a small amountincreases by a small amount	
Question 14	4 pts
Catalytic converters reduce the amount of in car exhaust.	
○ CO ○ O ₃	
O O ₃ O CO ₂	4 pts
O ₃ OCO ₂ ON ₂ Question 15	4 pts
O ₃ CO ₂ N ₂ Question 15 The two most abundant gases in an inhaled breath are Nitrogen and oxygen Nitrogen and water vapor Oxygen and carbon dioxide Carbon dioxide and nitrogen	
O ₃ CO ₂ N ₂ Question 15 The two most abundant gases in an inhaled breath are Nitrogen and oxygen Nitrogen and water vapor Oxygen and carbon dioxide	4 pts
O ₃ CO ₂ N ₂ Question 15 The two most abundant gases in an inhaled breath are Nitrogen and oxygen Nitrogen and water vapor Oxygen and carbon dioxide Carbon dioxide and nitrogen Question 16 The air we exhale contains about 100 times more of which gas than the air we	4 pts
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O3 CO2 N2 Question 15 The two most abundant gases in an inhaled breath are Nitrogen and oxygen Nitrogen and water vapor Oxygen and carbon dioxide Carbon dioxide and nitrogen Question 16 The air we exhale contains about 100 times more of which gas than the air we from the atmosphere? Carbon dioxide Argon Oxygen Nitrogen Question 17	4 pts
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One CO2 ON No	4 pts 4 pts 4 pts the 4 pts
Oc. OC	4 pts 4 pts 4 pts the 4 pts
© Co	4 pts 4 pts 4 pts the 4 pts 4 pts 4 pts 4 pts
Oc. OC	4 pts al to 18 °C.
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