563	
410	
Question 2 Hydrogen peroxide (H_2O_2) decomposes into hydrogen (H_2) and oxygen (O_2). Which	1 pt
the following represents this reaction? $H_2O_2 \rightarrow H_2 + O_2$ $H_2 + O_2 \rightarrow H_2O_2$	
○ $2H_2 + O_2 \rightarrow 2H_2O_2$ ○ $2H_2O_2 \rightarrow 2H_2 + O_2$	
Question 3 In which state of matter are the molecules all spread out? This means the distance	1 pt
between the molecules is much larger than the size of the molecules themselves.	
o solid	
Question 4 What are the key physical properties of solids?	1 pt
 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 	
Question 5 Which of the following substances listed has the smallest percentage in the make	1 pt
the typical composition of air here in Austin, TX ? argon (Ar) nitrogen (N ₂)	
oxygen (O ₂) carbon dioxide (CO ₂) water (H ₂ O)	
Question 6	1 pt
Which of the following layers of the atmosphere is closest to the ground? Troposphere Ozone	
StratosphereMesosphere	
Question 7 Which of the following simple ratios of nitrogen to oxygen is the most accurate for	1 pt
describing the air on this planet. (ratios are all written as nitrogen : oxygen)	
1:22:13:2	
○ 3 : 1 Question 8	A
Which of the following substances is most variable in our atmosphere?	1 pt
Water vapor Carbon dioxide Nitrogen Argon	
O Argon Question 9	1 pt
What is the name and the approximate molar mass of C ₅ H ₁₂ ? O Heptane, 74 g/mol	
Pentane, 68 g/mole Hexane, 72 g/mol Pentane, 72 g/mol	
Pentane, 74 g/mol Hexane, 86 g/mol Pentonium, 72 g/mol	
Question 10	1 pt
Which carbon compound contains the fewest carbon atoms? Methane	
HexanePropaneChlorobutane	
Question 11	1 pt
According to Boyle's Law, pressure and volume have a(n) indirect relationship direct relationship	
inverse relationshipnone of these are correct	
Question 12 A container holding an ideal gas is compressed to half its original volume at consta	1 pt
temperature. According to Boyle's Law, the pressure of the gas halves doubles	
triplesquadruples	
Question 13	1 pt
An inflated balloon has a volume equal to 2.3 L at 20°C. When the temperature is reduced to 10°C, the volume Odoubles	
is halved decreases by a small amount increases by a small amount	
Question 14	1 pt
Catalytic converters reduce the amount of in car exhaust. CO O ₃	
○ CO ₂ ○ N ₂	
Question 15 The two most abundant gases in an inhaled breath are	1 pt
○ Nitrogen and oxygen	
Nitrogen and water vapor	
Nitrogen and water vaporOxygen and carbon dioxideCarbon dioxide and nitrogen	
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 bre	1 pt
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