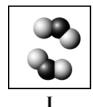
Chem / Envsty L111: Quiz 1 Key

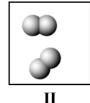
- 1. What is the primary component of an exhaled breath? Only 5/23 people answered correctly!
 - Even though exhaled breath is higher in CO₂ than inhaled air, a. N_2) b. O_2 the exhaled breath is still 75% N₂.
 - c. CO₂
 - d. H₂O
- 2. The quantity 0.0000064 g expressed in scientific notation is

19/23

- a. 6.4×10^6 g
- b. 6.4×10^{-6} g You need to move the decimal place 6 places to the
- c. 6.4×10^7 g right in order to get to 6.4, which means multiplying
- d. 6.4×10^{-7} g by 10⁻⁶
- 3. Which diagram(s) best characterize a mixture?

16/23









I contains 2 of the same kind of molecule, and is a

a. I and III only

b. III and IV only compound. II contains 2 molecules of a diatomic c. I, II and III only element. But III and IV each contain two different

d. **IV** only

kinds of molecules.

4. What are the products of the complete combustion of ethane?

(Note that this guestion was not scored, as we had not yet finished covering combustion)

- a. carbon monoxide and oxygen
- b. carbon monoxide and hydrogen
- c. carbon dioxide and oxygen
- d. carbon dioxide and water
- 5. Which substance is an element?

21/23

- a. NO₂
- b. NaCl
- c. N_2) This is the only answer which contains only one **kind** of atom

d. CH₄