

1. Organic chemistry is commonly defined as
 - a. The study of compounds made only by living cells.
 - b. The study of carbon compounds.
 - c. The study of vital forces.
 - d. The study of natural compounds.
 - e. The study of hydrocarbons.
2. Which of the following hydrocarbons has a double bond in its carbon skeleton?
 - a. C_2H_6
 - b. C_3H_6
 - c. C_4H_{10}
 - d. C_5H_{12}
 - e. C_6H_{14}
3. What is the empirical formula for the α -carbon in ethane?
 - a. C_2H_5
 - b. C_2H_6
 - c. C_2H_4
4. Choose the term that correctly describes the relationship between these two ring structures:

 - a. Structural isomers.
 - b. Geometric isomers.
 - c. Enantiomers.
 - d. None.
5. How many alpha carbons do we see in the first structure than the second structure respectively? (first number - 2d)
 - a. 1,1
 - b. 2,2
 - c. 2,3
 - d. 3,2
 - e. 3,3
6. What is the non-ring dependent name (name of a molecule called)?
 - a. Structural isomers.
 - b. Geometric isomers.
 - c. Enantiomers.
 - d. None.
7. A cyclic compound can be classified as being cis or trans across a double bond. (these two forms are called)
 - a. Structural isomers.