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2 Structural Organic Chemistry. The Shapes of Molecules. Functional Groups Line structures also can be modified to represent the three-dimensional shapes of molecules, and the way that this is done will be discussed in detail in Chapter 5. At the onset of your study of organic chemistry, you should write

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INTRODUCTION TO ORGANIC CHEMISTRY 1.1 Historical Background of Organic Chemistry Organic chemistry is the area of chemistry that involves the study of carbon ... Understanding about the structures of organic chemistry began with a theory of bonding called valence theory (Kekule, Couper, 1858).

CHAPTER 1 INTRODUCTION TO ORGANIC CHEMISTRY 1.1 Historical

Organic Chemistry Questions The Covalent Bond 1. The hybridization of the central carbon in CH_3CN and the bond angle CCN are a. sp^2 , 180° . b. ... Place the following structures properly on the (abbreviated) energy surface for cyclohexane ring reversal. a. 1 = b or c, 2 = a, 3 = d, 4 = b or c

General Organic Chemistry Questions

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Short Summary of IUPAC Nomenclature of Organic Compounds

2. Draw (reasonable resonance structures for each of the following molecular structures. ((NNC C CH3 O CH3 OO a) OC S b) N NO NNC C CH3 O CH3 c) d) O O OCS OC NNO O-2 NNC C CH3 O CH3 e) O O O O g) N O N O NN O N O h) N B H H N B H H N B H H O O O f) O N O O N O O N O Prepared (by (JosÃ© (Laboy

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structure and reactivity Functional Group (FG): group of atoms which are part of a large molecule that have characteristic chemical behavior. FGs behave similarly in every molecule they are part of. The chemistry of the organic molecule is defined by the function groups it contains

Chapter 3: Organic Compounds: Alkanes and Cycloalkanes

CHAPTER 6 Stereochemistry Intent and Purpose ... chemistry of the repeating units. Finally, the study of stereochemistry can be used to probe ... self), and so the new structure is a stereoisomer of the original. However, (R,R)- and meso-tartaric acid are not mirror images, so they are not enantiomers. They are diastereomers.

CHAPTER

As organic chemistry developed and structures ... The International Union of Pure and Applied Chemistry (IUPAC) is the organism that sets the rules for nomenclature of organic compounds today. Names that follow IUPAC rules are known as systematic names, or IUPAC names.

INTRODUCTION TO ORGANIC NOMENCLATURE

This edition is divided into 26 chapters going from structure and bonding in organic molecules and the description of the major class of functions and reactions to more biologically related molecules,

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