

Name: _____

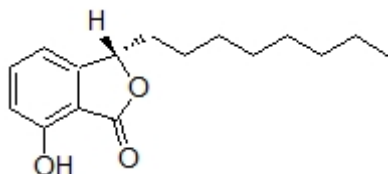
Organic I Lecture

Fall 2011

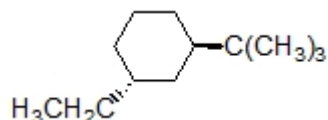
Quiz #2

(10 points)

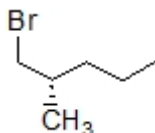
1. The following compound is produced by a jellyfish derived fungus and has been shown to have anti-biotic activity (*J. Nat. Prod.* **2011**, 1826) Circle and name the functional groups in the structure below. (2 points)



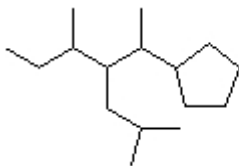
2. Provide an IUPAC name for the following compound. (2 points, problem 3-17b)



3. Sighting down the C1-C2 bond, draw the following structure in its most stable conformation in a Newman projection. (3 points)



4. Identify the correct IUPAC name of the following compound (3 points)



- a) 4-(1-cyclopentylethyl)-3,6-dimethylheptane
- b) 1-cyclopentyl-3-isobutyl-2,4-dimethylhexane
- c) 3-sec-butyl-2-cyclopentyl-5-methylhexane
- d) 4-(1-cyclopentylethyl)-2,5-dimethylheptane
- e) 2-cyclopentyl-3-isobutyl-4-methylhexane