## UCI DEPARTMENT OF ORGANIC CHEMISTRY PEER TUTORING REVIEW SESSION FEEDBACK EVALUATION

<table>
<thead>
<tr>
<th>Quarter: Fall 2017</th>
<th>Date: 11/9/2017 (Thursday 8-10pm)</th>
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<tbody>
<tr>
<td>Class: Professor Hirschauer</td>
<td>Circle One Midterm Review 1 Midterm Review 2</td>
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### Tutors’ Names
Lester Gopar, Samantha Rodriguez and Christopher Tang

### COMMENTS/ SUGGESTIONS
(VERY IMPORTANT!)

- **Lester Gopar:**
- **Samantha Rodriguez:**
- **Christopher Tang:**

### What worked best?

### What could be improved?

### What would you like to see next time?

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<thead>
<tr>
<th></th>
<th>Strongly Disagree</th>
<th>Disagree</th>
<th>Neither Agree or Disagree</th>
<th>Agree</th>
<th>Strongly Agree</th>
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<tbody>
<tr>
<td>This review was interactive and engaging</td>
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<td>Comments</td>
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<td>The presentation volume was acceptable.</td>
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<td>The presentation was visually clear and logically organized.</td>
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<td>The review improved/reinforced your understanding of the material.</td>
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<td>The quality of the review packet was excellent.</td>
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**PLEASE fill out this evaluation, even if you plan to leave early! Thanks!**
1. In the box provided, classify the types of carbon (primary, secondary, etc) that are circled.

2. Indicate which types of hydrogen (primary, secondary, etc) the arrow are pointing to.
3. Circle and label all the functional groups.

(a)

(b)

4. Which molecule would you expect to have a higher boiling point?

pentane  1-butanol  butanal
5. Which of the molecules with the higher melting point?

\[ \text{or} \]

6. Draw the five constitutional isomers for \( \text{C}_6\text{H}_{14} \)

7. Draw the structure for the following molecules with the provided names:

(a) 1-bromo-3-chloro-1-methylcyclohexane

(b) 4-ethyl-2,2,5-trimethyloctane
8. Name the following structures

9. Fill out the Energy diagram for the following molecules below. Draw out the Newman projections that correspond with the rotation angle. Look along the C2-C3 bond where the arrow is. Label each as staggered, eclipsed, gauche, or anti:
   a.
10. Draw out 3-methylpentane, and then draw out the Newman projections for only the staggered confirmations. Draw the Newman projection along the C3-C4 bond. Which is the most stable? Which is the least stable? Explain why.

11. Draw the following in their chair confirmations (also draw one ring-flipped version). Predict which is more stable between the two.
   a. Both stereoisomers of 1-ethyl-2 methylcyclohexane
12. Locate the stereogenic center(s) in the following compound.

13. Label each stereogenic center as R or S.

(a)
15. Identify the relationship between the following compounds.

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