Academic Honesty Policy. Academic honesty is strictly enforced on quizzes, exams, and other aspects of this course. Academic dishonesty will result in a failing grade in the class and a letter in the student's file. Activities constituting academic dishonesty include:

Cheating
- Copying from others during an examination.
- Communicating exam answers with other students during an examination.
- Offering another person's work as one's own.
- Taking an examination for another student or having someone take an examination for oneself.
- Tampering with an examination after it has been corrected, then returning it for more credit.
- Using unauthorized materials, prepared answers, written notes, or concealed information during an examination.

Dishonest Conduct
- Stealing or attempting to steal an examination or answer key from the instructor.
- Allowing another student to copy off of one's own work during a test.

Collusion
- Any student who knowingly or intentionally helps another student perform any of the above acts is subject to discipline for academic dishonesty.

I understand and will abide by this academic honesty policy: ____________________________ (signature) Seat: ________

1. Draw the structure corresponding to the following name. (Smith 4th ed. 19.29c, 2 pts)

(2R)-2-chloropropanoic acid

2. Rank the following in order of increasing boiling point: \( \text{A} < \text{C} < \text{B} \) (Smith 4th ed. 19.32b, 2 pts)

A. \( \text{CH}_3\text{COCH}_2\text{CH} (\text{CH}_3)_2 \)
B. \( (\text{CH}_3)_2\text{CHCH}_2\text{COOH} \)
C. \( (\text{CH}_3)_2\text{CHCH}_2\text{CH(}OH\text{)}\text{CH}_3 \)

3. Identify the compounds in the following reaction sequence. (Smith 4th ed. 19.34a, 2 pts)

\[
\begin{align*}
\text{C} & \xrightarrow{1. \text{BH}_3} \text{D} & \xrightarrow{2. \text{H}_2\text{O}_2; \text{H}^+} & \text{E} \\
\end{align*}
\]

4. Rank the following in order of increasing basicity: \( \text{A} < \text{C} < \text{B} \) (Smith 4th ed. 19.39a, 2 pts)

A. \( \text{BrCH}_2\text{COO}^- \)
B. \( (\text{CH}_3)_2\text{CCOO}^- \)
C. \( \text{BrCH}_2\text{CH}_2\text{COO}^- \)

5. Match the \( ^{13} \text{C} \) NMR data to the appropriate structure. (Smith 4th ed. 19.61, 2 pts)

Spectrum 1: signals at 14, 22, 27, 34, 181 ppm: \( \text{B} \)
Spectrum 2: signals at 27, 39, 186 ppm: \( \text{A} \)
Spectrum 3: signals at 22, 26, 43, 180 ppm: \( \text{C} \)