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 that corresponds to the name \(N,N\)-diisopropylaniline (Smith 4th ed. 25.43d, 2 pts)

![Structure of \(N,N\)-diisopropylaniline]

2. Rank the following compounds in order of increasing basicity: \( C < B < A \) (Smith 4th ed. 25.23, 2 pts)

compound A

\[ \text{NH}_2 \]

compound B

\[ \text{NH}_2 \]

compound C

\[ \text{CONH}_2 \]

3. Draw the product of the following reaction. (Smith 4th ed. 25.15c, 2 pts)

![Product of a reaction]

4. Draw the hydrocarbon product of the following reaction sequence. (Smith 4th ed. 25.29c, 2 pts)

\[
\text{C}_5\text{H}_5\text{NH}_2 \xrightarrow{1. \text{CH}_3\text{OH (excess)}} \xrightarrow{2. \text{Ag}_2\text{O}} \xrightarrow{3. \Delta} \]

![Product of a reaction sequence]

5. Draw the products in the following reaction sequence. (adapted from Smith 4th ed. 25.34d, 2 pts)

\[
\text{benzene} \xrightarrow{\text{HNO}_3, \text{H}_2\text{SO}_4, \text{H}_2, \text{Pd-C}} \xrightarrow{\text{Cl}_2 (\text{excess})} \xrightarrow{\text{FeCl}_3} \xrightarrow{\text{NaNO}_2, \text{HCl}} \xrightarrow{\text{H}_3\text{PO}_4} \]

![Products of a reaction sequence]

\[ \text{C}_6\text{H}_5\text{Cl}_3 \]