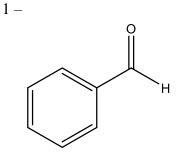
## Chemistry 2500 (Fall 2017): Assignment #5 – Functional Groups

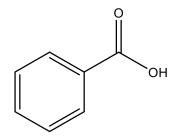
- Draw 2 molecules that have the molecular formula  $C_4H_8O$  and are a/an: 1.
  - a) Ketone (only one)
  - b) ether
  - c) alcohol
  - d) aldehyde
- Draw a molecule that has the molecular formula C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub> and is a/an: 2.
  - a) ester b) carboxylic acid c) amide
- 3. Match each named functional group (A - F) to the molecule (1 - 6) that contains it.
  - A Carboxylic Acid
  - B Ester
  - C-Alcohol
  - D Amine
  - E Ether
  - F Aldehyde

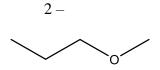


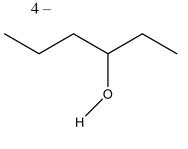




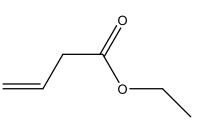












- 4. Draw 2 molecules that have the molecular formula  $C_3H_6O$  and are an: (10 points)
  - a) alcohol
  - b) ether
  - c) aldehyde (only one)