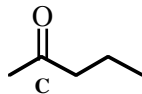
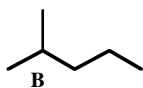
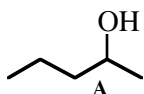
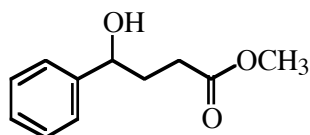


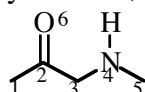
1. Which of the following statements regarding compounds A-C is true?
- B** has the highest boiling point and the lowest water solubility
 - A** is highest boiling; **B** has the lowest water solubility
 - C** is highest boiling; **B** has the highest water solubility
 - A** is highest boiling; **A** has the lowest water solubility



2. Which functional group is not found in the following structure?
- alcohol
 - aromatic
 - ester
 - ketone



3. Which of the following statements is true regarding the structure shown?
- The only sp^2 -hybridized atom is C-2.
 - The only sp^3 -hybridized atoms are C-1, C-3, and C-5.
 - C-2, O-6, and N-4 are all sp^2 hybridized
 - C-2 and O-6 are sp^2 -hybridized; N-4 is sp^3 hybridized.



4. The CCC bond angle (relative to the central carbon) in acetone, CH_3COCH_3 , is:
- 90°
 - 109°
 - 120°
 - 180°
5. For the 3 pairs of structures shown, which of the following statements is true?
- A** are stereoisomers; **B** are the same; **C** are structural isomers
 - A** are the same; **B** are the same; **C** are structural isomers
 - A** are the same; **B** are stereoisomers; **C** are stereoisomers
 - A** are structural isomers; **B** are stereoisomers; **C** are structural isomers

