60. Identify all **hemiacetals** and **acetals if any** in the following structures and tell whether each is formed from an **aldehyde** or a **ketone**. Also indicate the **formula** of the alcohol used in the reaction to produce the acetal(s) and the hemiacetal(s)

- For the first structure:
  - Hemiacetal: Yes
  - Acetal: Yes
  - Neither: No
  - Ketone: Yes
  - Aldehyde: No
  - Alcohol: CH₃OH

- For the second structure:
  - Hemiacetal: Yes
  - Acetal: Yes
  - Neither: No
  - Ketone: No
  - Aldehyde: Yes
  - Alcohol: CH₂CH₂OH

- For the third structure:
  - Hemiacetal: Yes
  - Acetal: Yes
  - Neither: No
  - Ketone: Yes
  - Aldehyde: No
  - Alcohol: CH₃CH₂OH

This compound is neither a hemiacetal or an acetal because it does not have a carbon bonded to two oxygens. Its functional groups are an ether and a primary alcohol.