

3 Points Each. Please mark your answers on the scantron sheet. You may keep this copy.

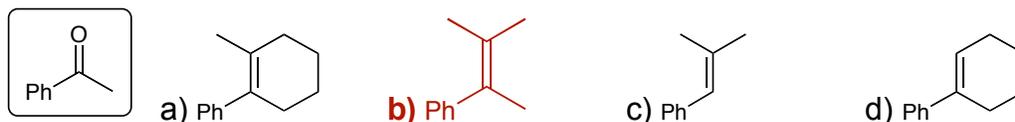
1. Which of the following compounds has the oxidation state of a carboxylic acid?



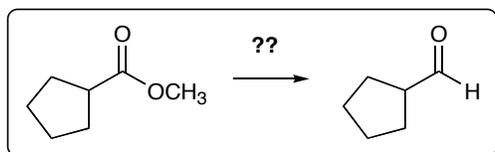
2. Which of the following carbonyls would be MOST reactive for nucleophilic addition?



3. The ozonolysis of what alkene would afford the carbonyl compound shown below?



4. What reducing agent would be necessary to carry out the following reaction?

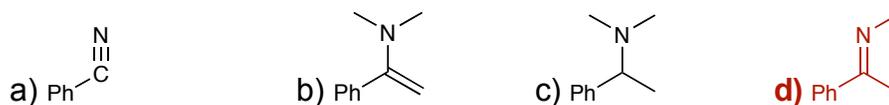


- a) LiAlH4 then H3O+
b) DIBAL then H3O+
 c) NaBH4 then H3O+
 d) NaH then H3O+

5. Which of the following structures is an enamine?



6. Which of the following structures is an imine?



7. Which of the following structures is an acetal?

