

Chemistry 2542, Fall 2016

Quiz 2

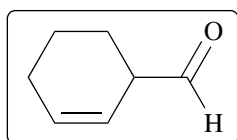
(30 points)

Important notes:

- Please use the provided Scantron form for your answers; you can keep the sheet with the questions and can use it as scratch paper
- Do not forget to write your name on the Scantron form
- You will not receive credit for unmarked answers or for more than one mark on answer line
- Your scores will be posted on eGradebook; graded Scantron forms will not be returned to students.

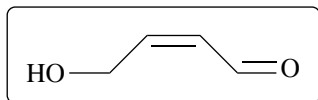
Questions 1-10: Please mark the appropriate box on the front of the Scantron form (3 pts each).

1. What is the correct **name** for the compound shown in the box?



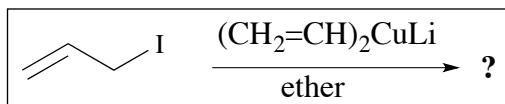
- A) 1-cyclohexenecarbaldehyde B) 2-cyclohexenecarbaldehyde
C) 1-cyclohexenal D) benzaldehyde

2. What is the **IUPAC name** for the compound shown in the box?



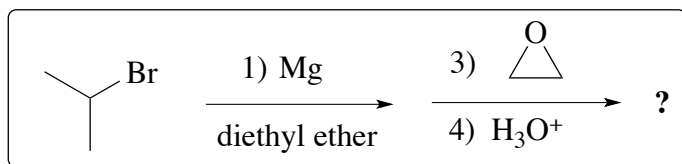
- A) (E)-4-hydroxy-2-butenal B) (Z)-4-hydroxy-2-butenal
C) (E)-4-oxo-2-butenol D) (Z)-4-oxo-2-butenol

3. What is the **main product** of the reaction shown in the box?



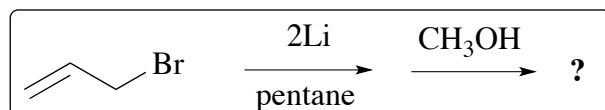
- A) 1,4-pentadiene B) 1,3-butadiene
C) 1,3-pentadiene D) 1-butene

4. What is the **main product** of the sequence of reactions shown in the box?



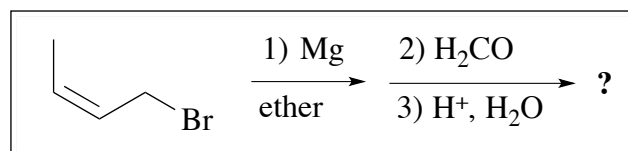
- A) B)
C) D)

5. What is the **main product** of the sequence of reactions shown in the box?



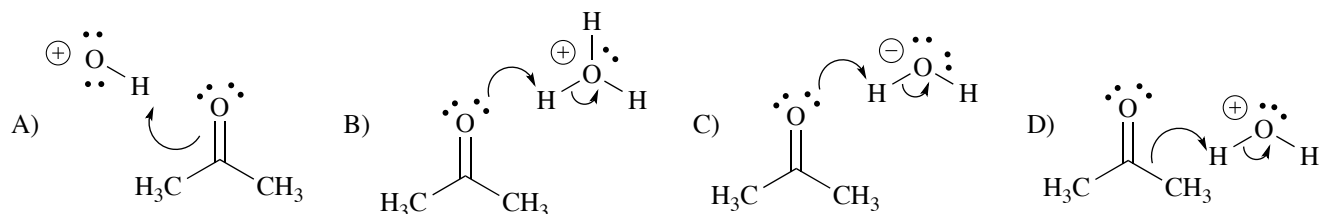
- A) 1-butene B) 3-methoxy-1-propene
C) 1-propen-3-ol D) 1-propene

6. What is the **main product** of the sequence of reactions shown in the box?

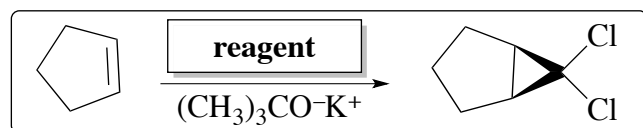


- A) (Z)-3-hexen-2-ol B) (E)-3-hexen-2-ol
C) (Z)-3-penten-1-ol D) (E)-3-penten-1-ol

7. Which of the following drawings correctly describes the movement of electrons during the **protonation** of acetone?

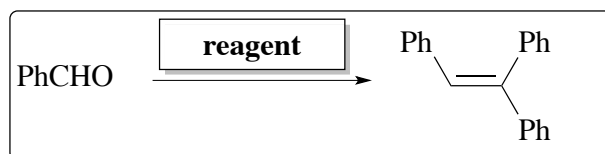


8. Which **reagent** can be used for the reaction shown in the box?



- A) CH_2I_2 B) CHCl_3 C) $\text{Zn}(\text{Cu})$ D) CH_2Cl_2

9. Which **reagent** can be used for the reaction shown in the box?



- A) $\text{O}=\text{C}(\text{Ph})_2$ B) Ph_3P C) $\text{Zn}(\text{Cu})$ D) $\text{Ph}_3\text{P}^+-\text{C}^-\text{Ph}_2$

10. Which of the following correctly describes the direction of **polarity** of the carbon-lithium bond?

- A) $\text{H}_3\text{C}^{\delta+}-\text{Li}^{\delta+}$ B) $\text{H}_3\text{C}^{\delta-}-\text{Li}^{\delta-}$ C) $\text{H}_3\text{C}^{\delta-}-\text{Li}^{\delta+}$ D) $\text{H}_3\text{C}^{\delta+}-\text{Li}^{\delta-}$