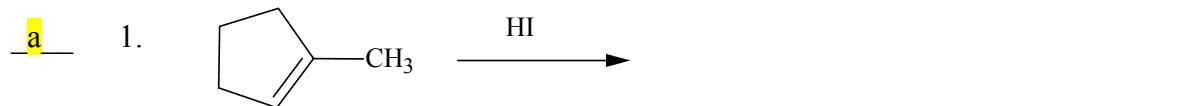
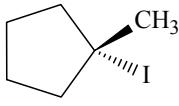
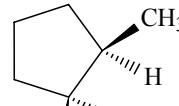
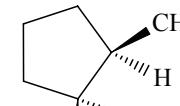
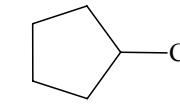
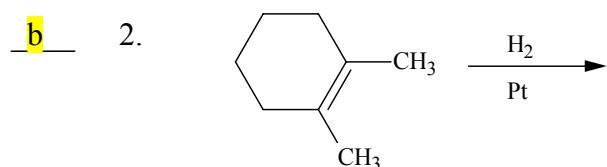


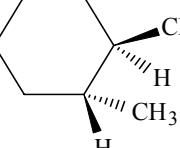
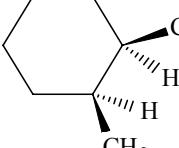
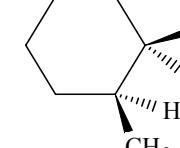
Organic Chemistry I
Problem Set 20 Answer Key
Alkene Reactions – Practice Exam

I. Select the Best Answer

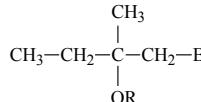
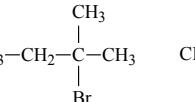
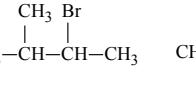
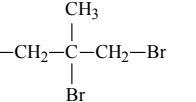
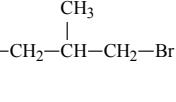


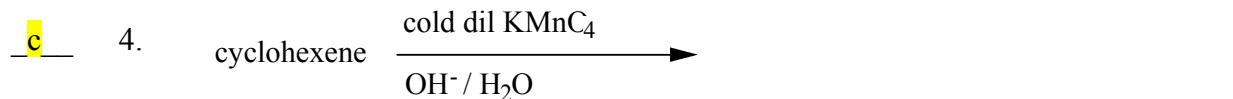
- a.  b.  c.  d.  e. No Rxn

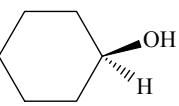
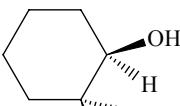
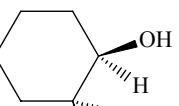
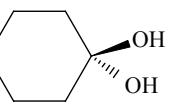
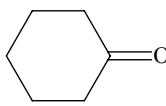


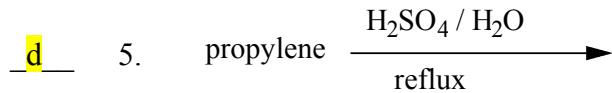
- a.  b.  c.  d. All of these are formed



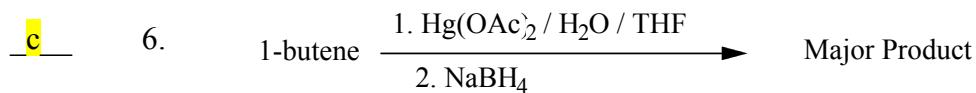
- a.  b.  c.  d.  e. 



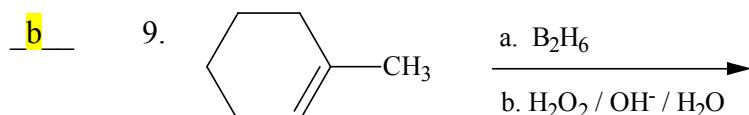
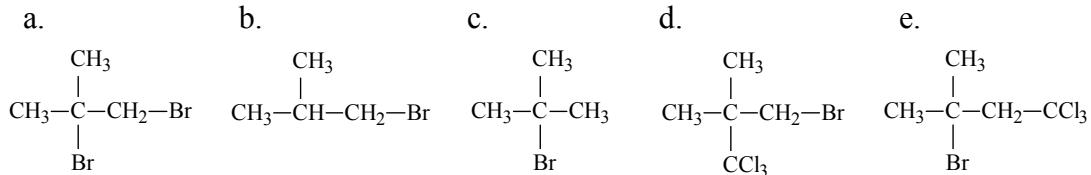
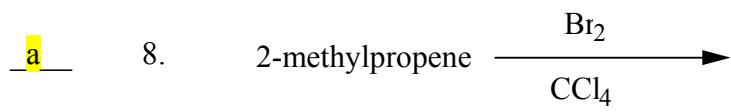
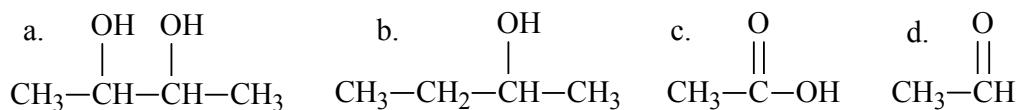
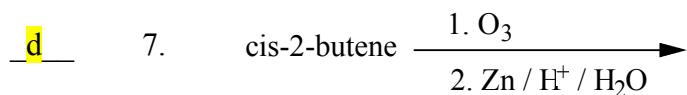
- a.  b.  c.  d.  e. 



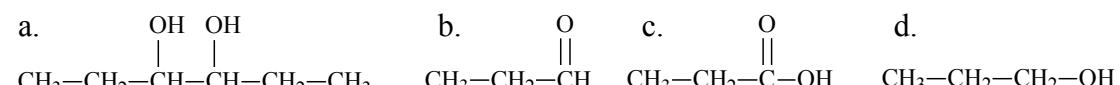
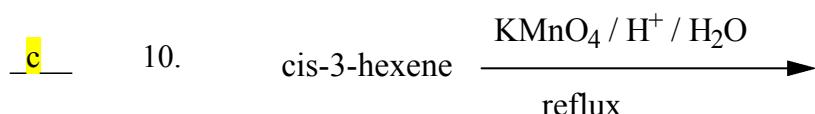
- a. propylene glycol b. $\text{CH}_2=\text{C}=\text{CH}_2$ c. 1-propanol d. 2-propanol e. none of these



- a. 1,2-butanediol b. 1-butanol c. 2-butanol d. butane

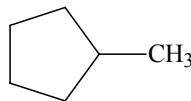
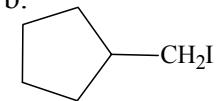
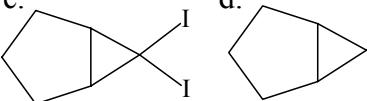


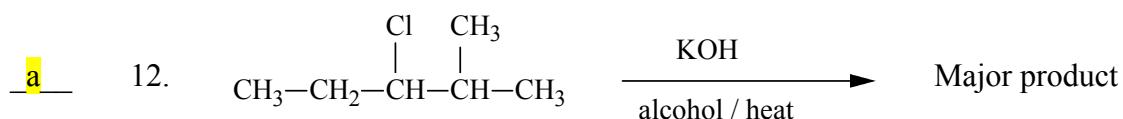
- a. cis-2-methylcyclohexane b. trans-2-methylcyclohexanol c. 1-methylcyclohexanol
d. 1-methyl-1,2-cyclohexanediol

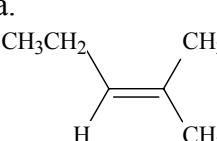
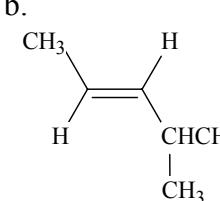
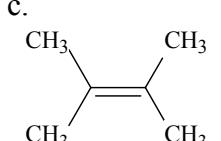
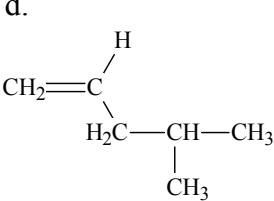


e.
None of these

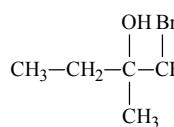
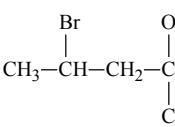
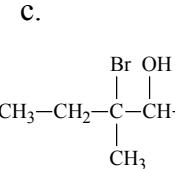
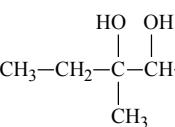


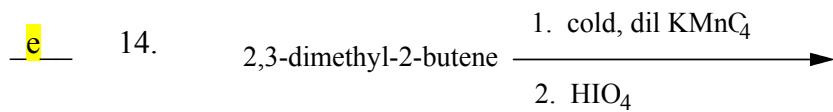
- a.  b.  c.  d.  e. 

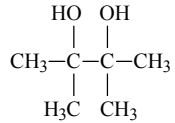
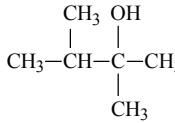
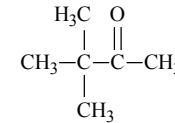
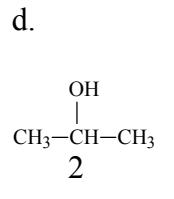
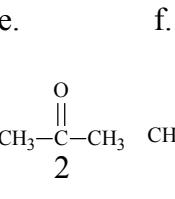
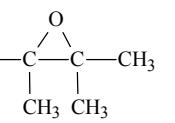


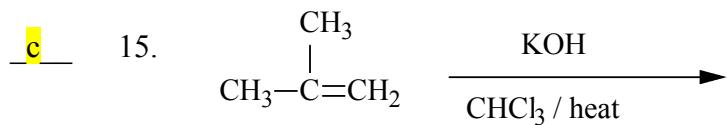
- a.  b.  c.  d. 



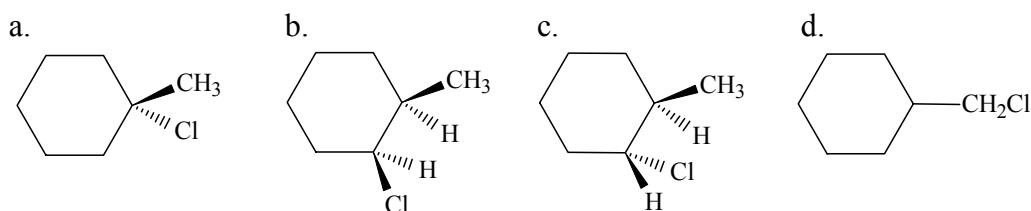
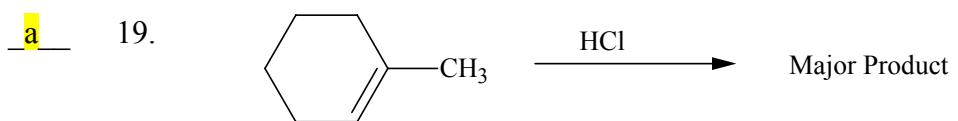
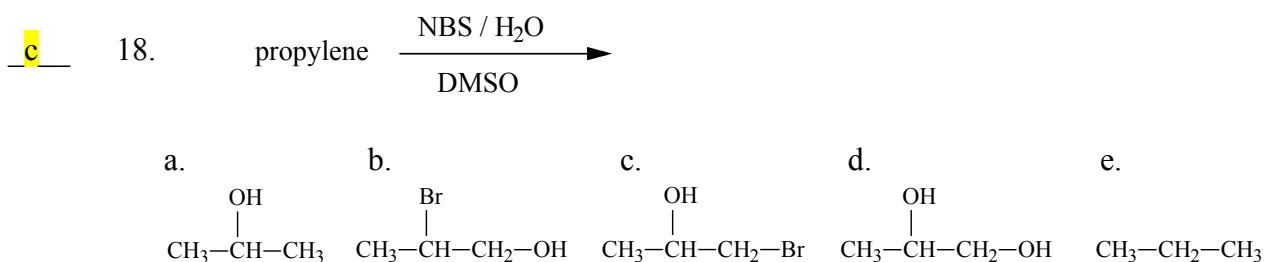
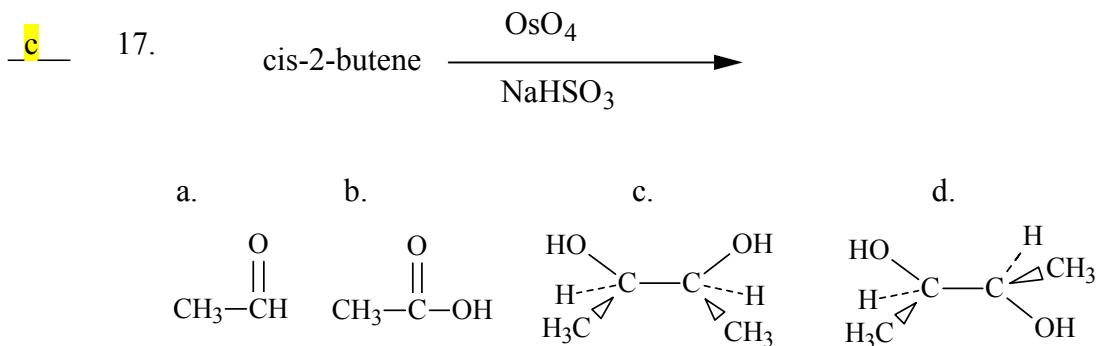
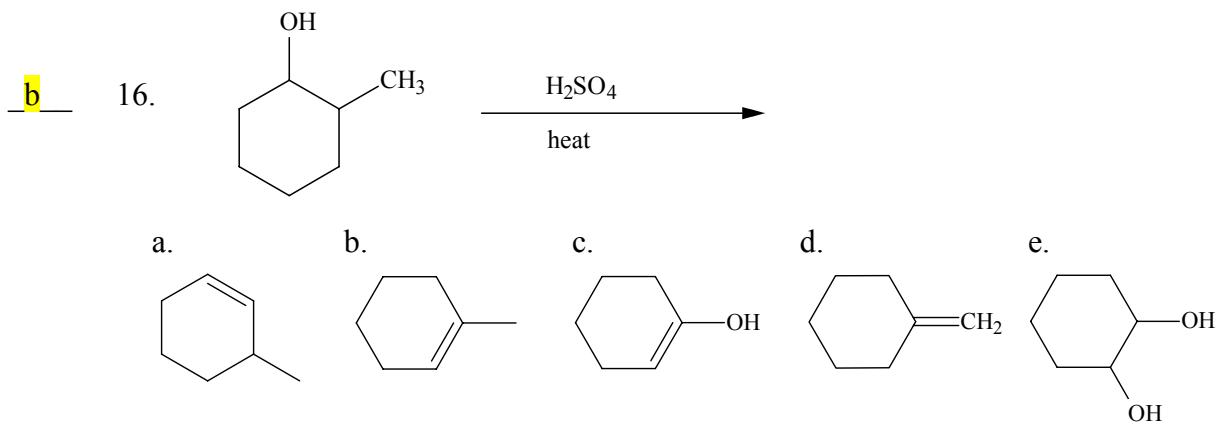
- a.  b.  c.  d.  e. No Rxn



- a.  b.  c.  d.  e.  f. 

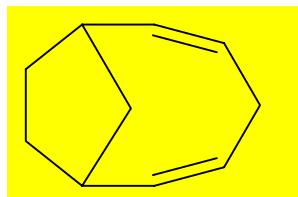
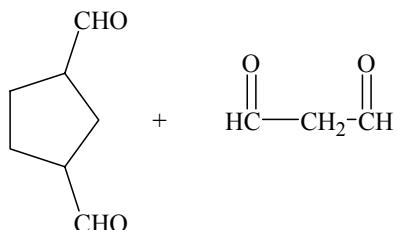


- a. 1,2-dimethylcyclopropane b. acetone and CO₂ c. 1,1-dichloro-2,2-dimethylcyclopropane
d. 1-chloro-2-methyl-2-propanol



II. Answer the following questions:

1. A hydrocarbon of formula $C_{10}H_{14}$ is treated with ozone, then with acidic zinc in water. The only products are shown below. Write the structure of the hydrocarbon.



2. A compound of formula $C_{10}H_{16}$ is treated with ozone, then with acidic zinc in water. The products of this reaction are shown below. When the original compound is treated with excess H_2 / Pt , 1-isopropyl-3-methylcyclohexane is formed. Write the structure of the original compound.

