

\* Intro to Carbonyls + C Nucleophiles  
w/ Carbonyls Application Answers

① a.) 3-pentanone

2-methylpentanal

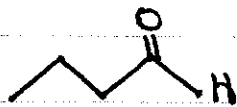
b.) 1-bromo-2-pentanone

d.) 2-iodopentanal

② a.)  $\text{HgSO}_4$



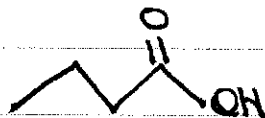
$\text{BH}_3$



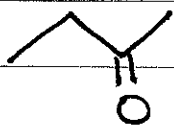
b.) PCC



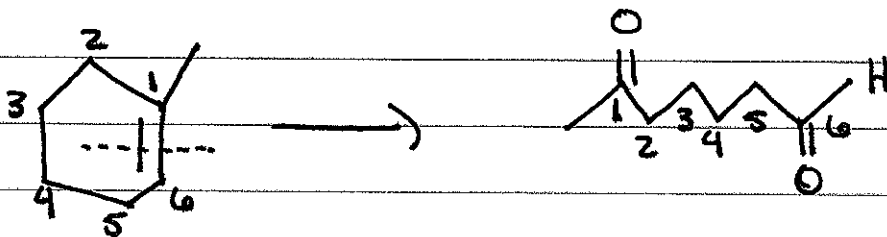
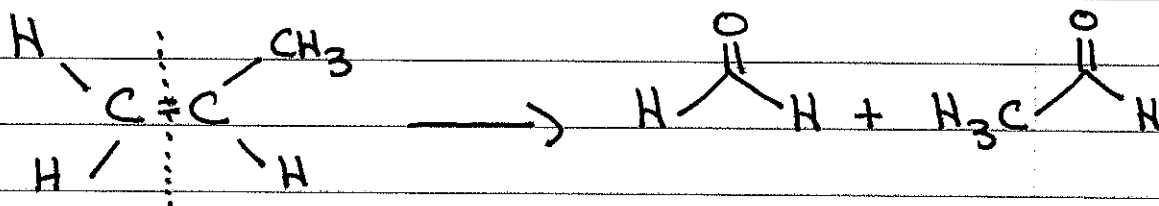
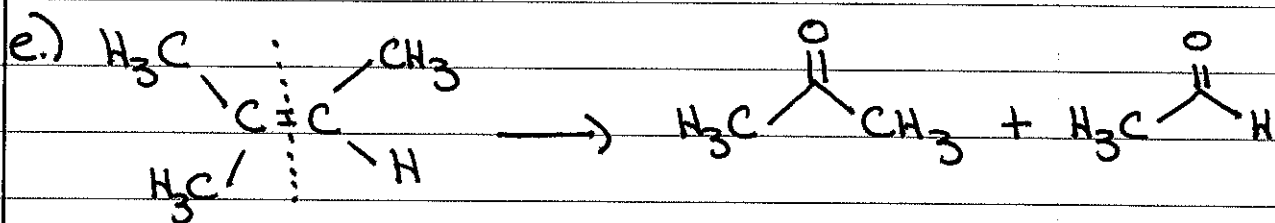
Cr(VI) or  $\text{KMnO}_4$

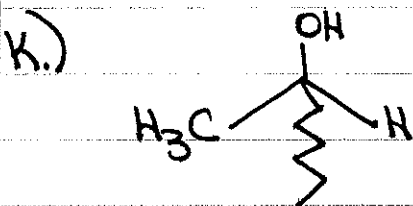
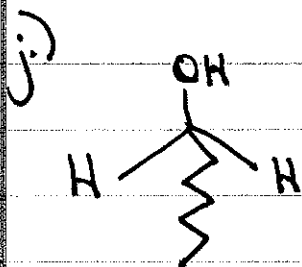
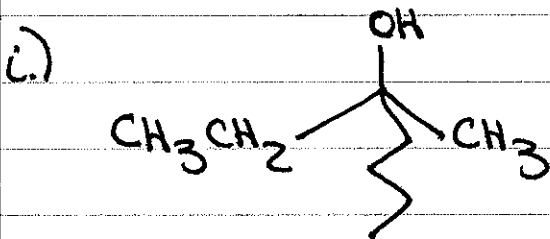
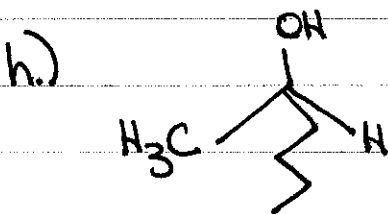
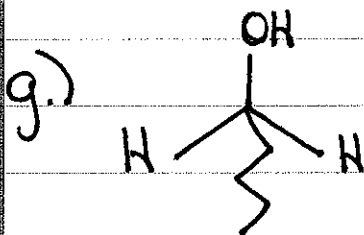
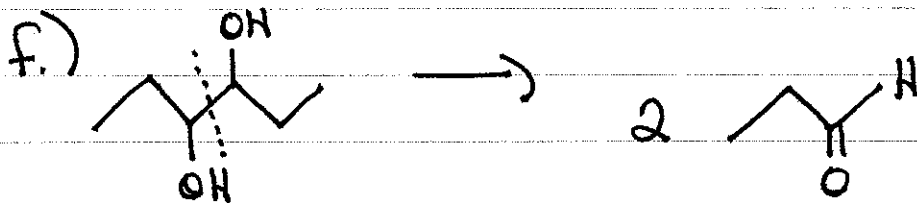


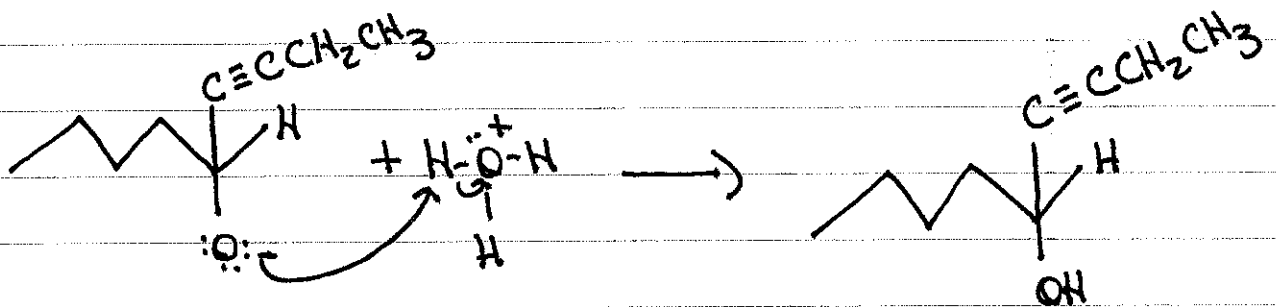
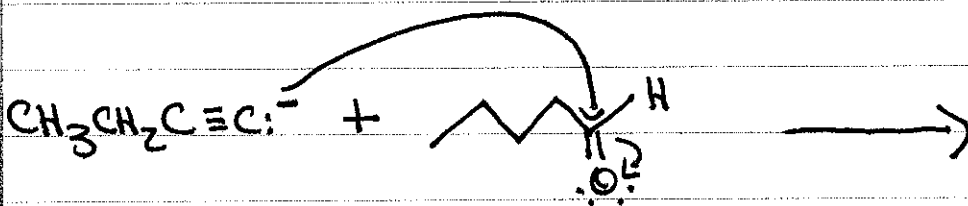
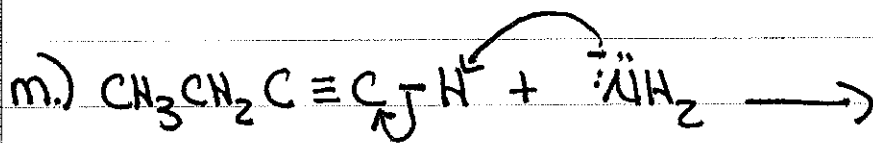
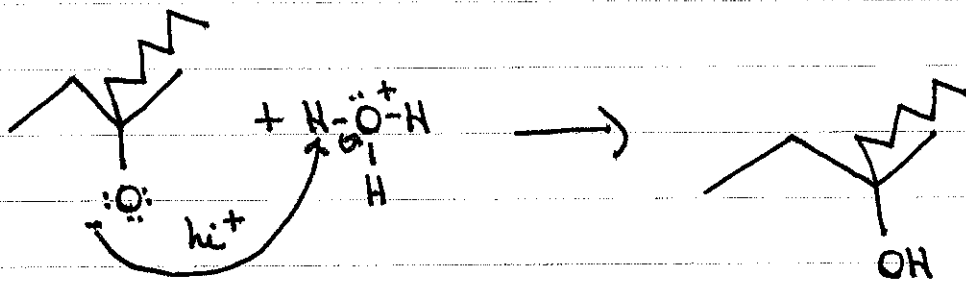
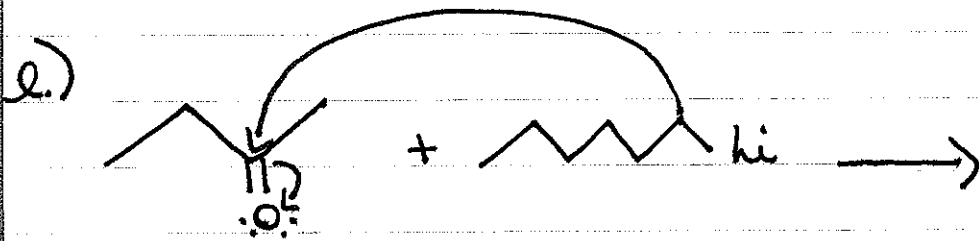
c.) PCC or Cr(VI) or  $\text{KMnO}_4$

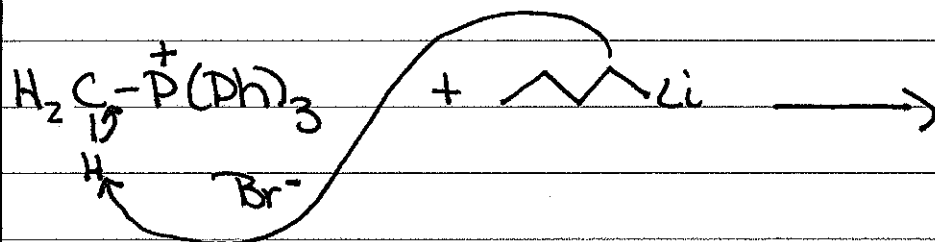
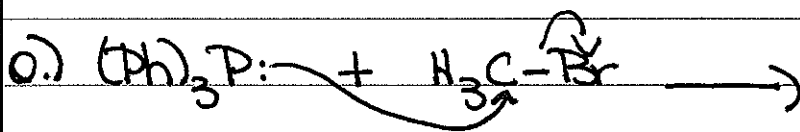
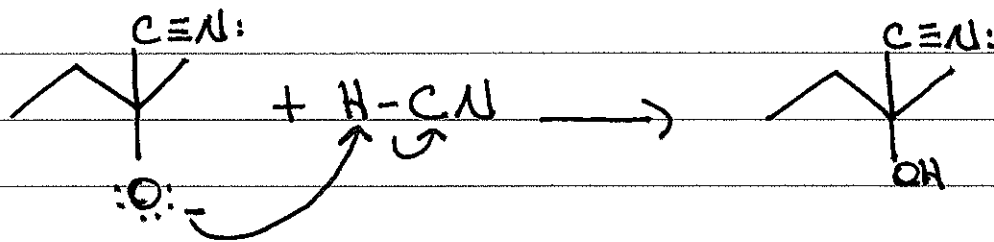
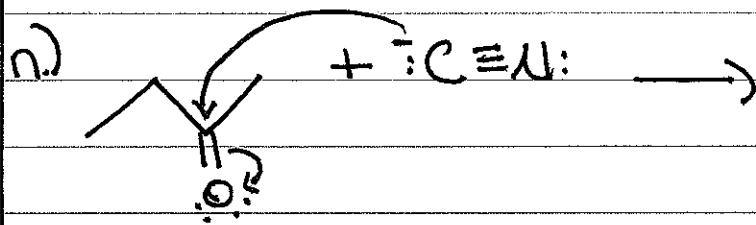


d.) No Rxn: Never oxidizing a 3° ROH

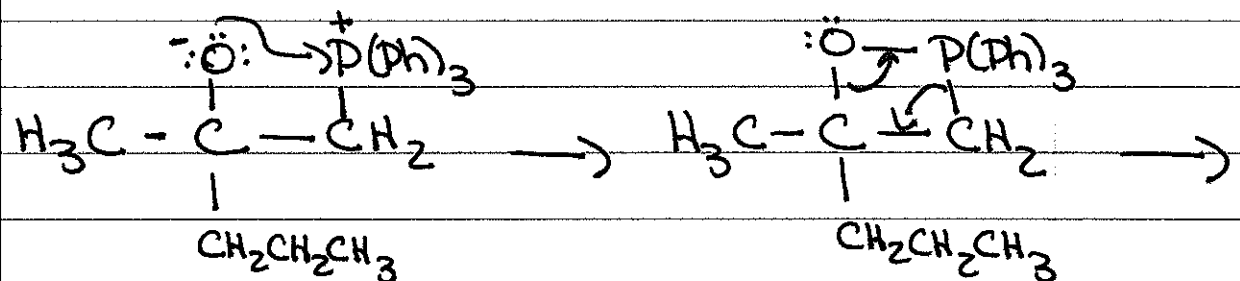
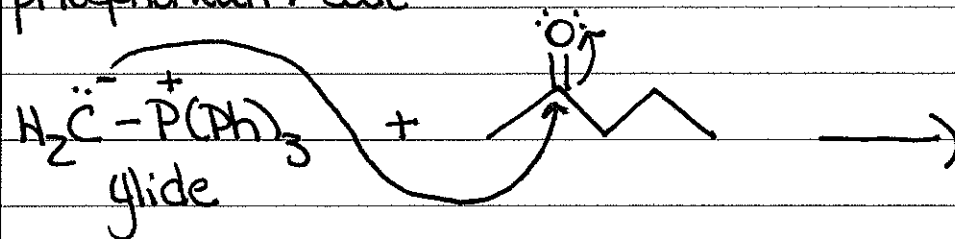








phosphonium salt



Belaine int.

oxaphosphetane int.

