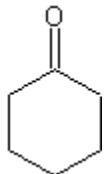


TEST II REVIEW SOLUTIONS – 8 March 2009

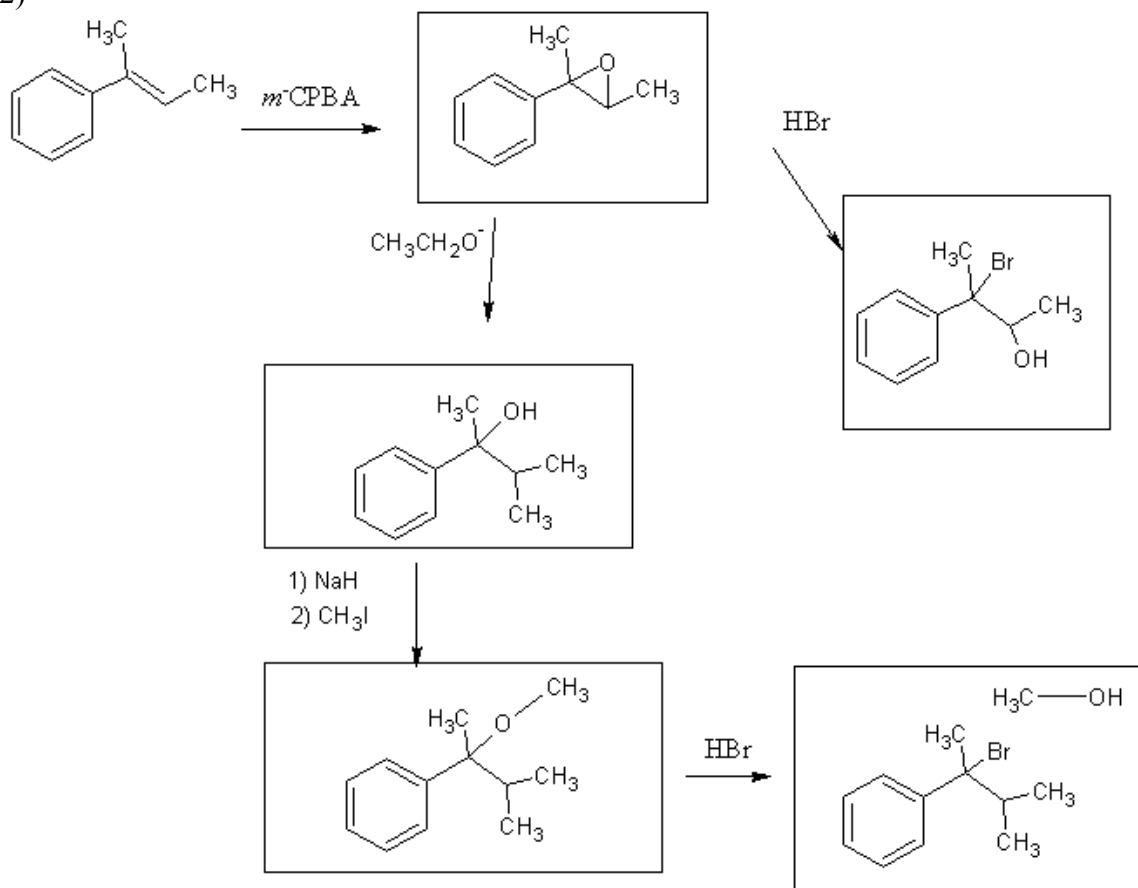
1)

- a) 1)  $\text{O}_3$ , 2)  $\text{Zn}$ ,  $\text{H}_3\text{O}^+$
- b) 1)  $\text{NaBH}_4$  ( or  $\text{LiAlH}_4$ ), 2)  $\text{H}_3\text{O}^+$
- c)  $\text{CrO}_3$ ,  $\text{H}_3\text{O}^+$  (or  $\text{PCC}$ )
- d)  $\text{PBr}_3$
- e)  $\text{Mg}$ , ether

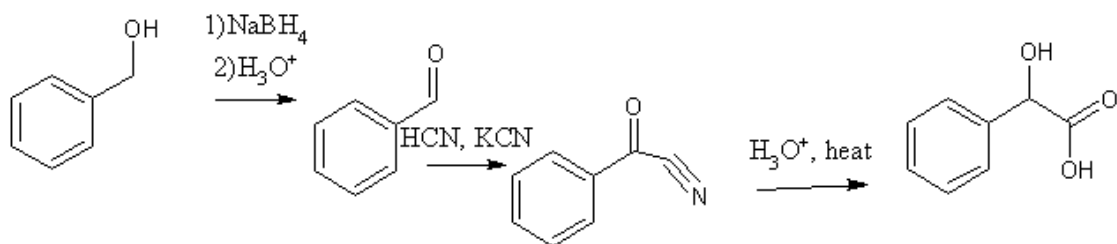
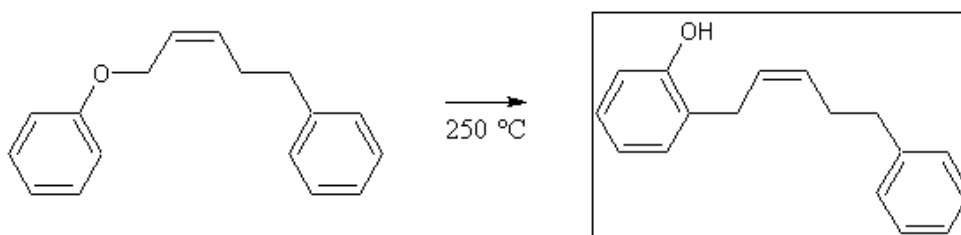
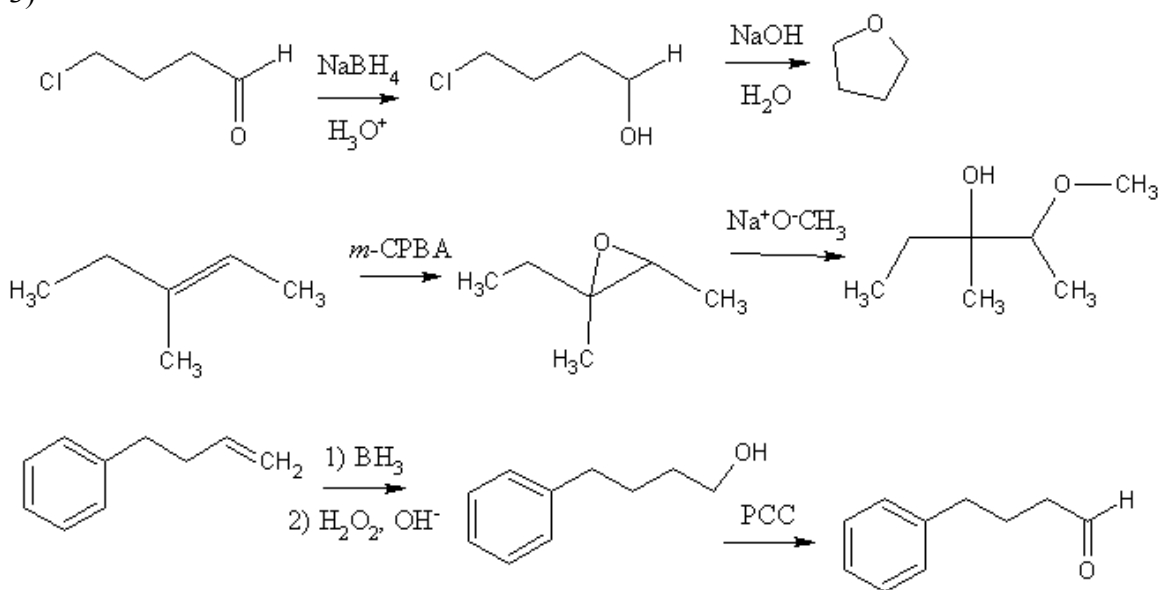


- f)
- g)  $\text{POCl}_3$ , pyridine
- h) 1)  $\text{KMnO}_4$ ,  $\text{H}_2\text{O}$ ,  $\text{NaOH}$ , 2)  $\text{H}_3\text{O}^+$

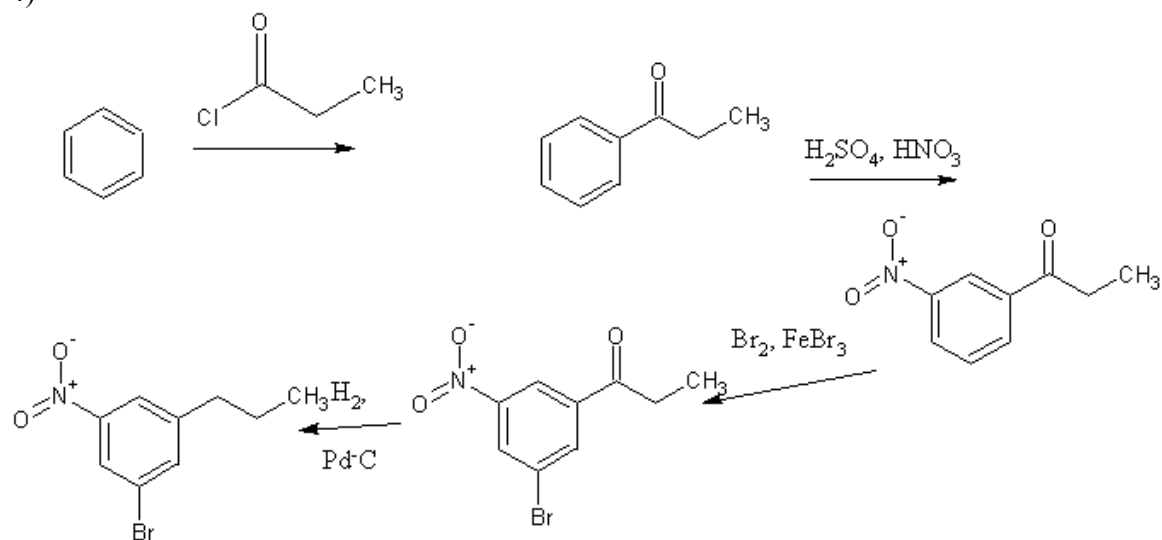
2)



3)



4)



5)

