

HOMEWORK ASSIGNMENT #8 ORGANIC CHEMISTRY II

(to and from alcohols)

(due Wednesday 16 April)

mine

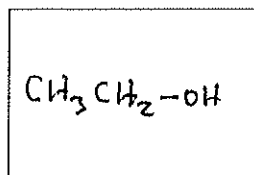
Your name: Ans

(25 points total)

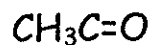
8.1

Nothing but boxes

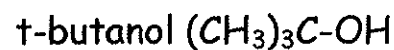
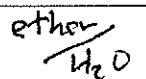
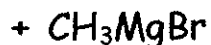
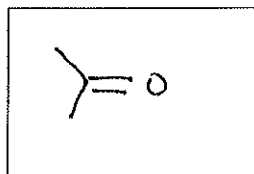
a)



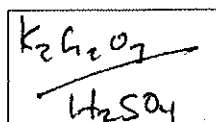
pcc



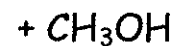
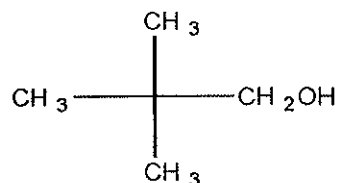
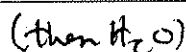
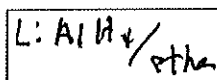
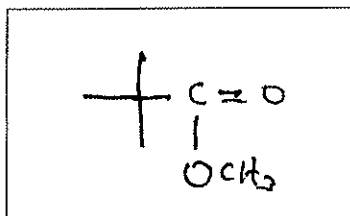
b)



c)

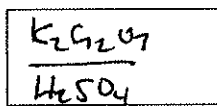
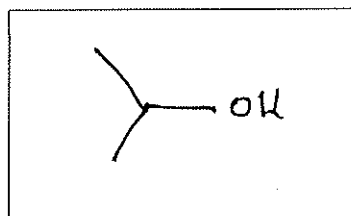


d)

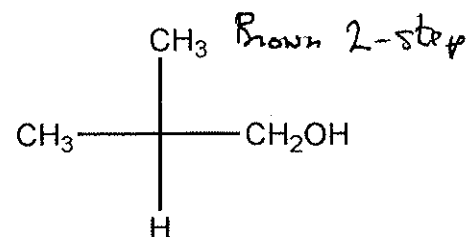
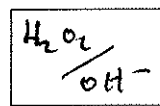
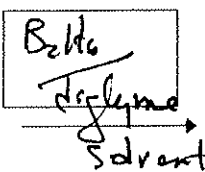
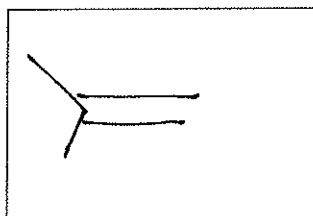


⇒ ester reduced

e)

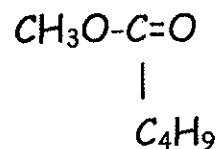
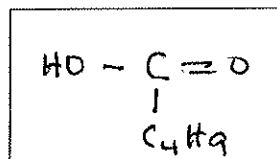


f)



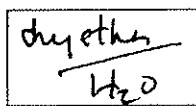
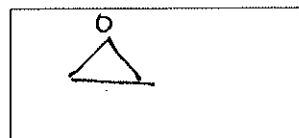
Brown 2-step

g)



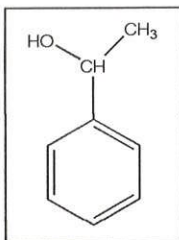
Fischer
esterification

h)



8.2. Alcoholic Synthesis Binge

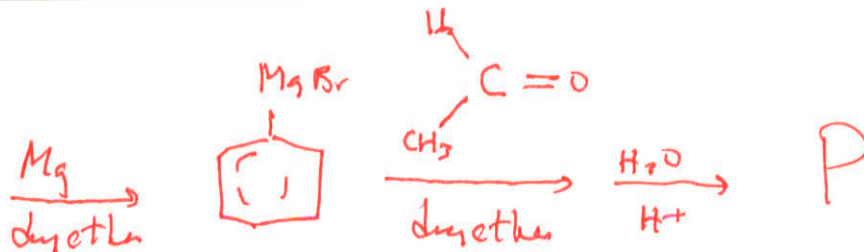
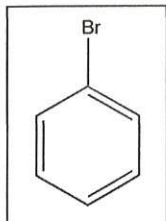
Provide synthetic routes to 1-phenylethanol starting from the substrates below:



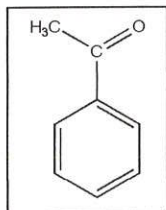
= P (Product)

START HERE (2 PT EACH)/10 pts total

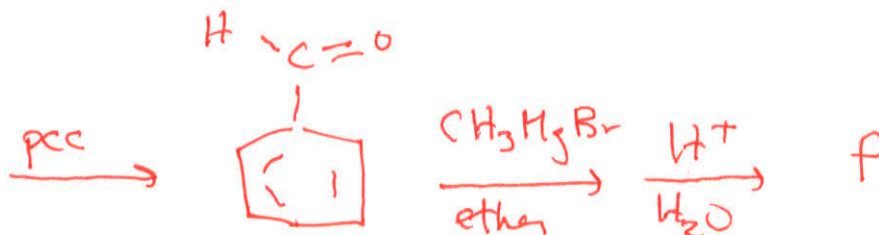
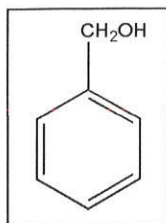
1) chlorobenzene



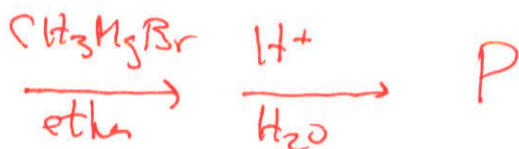
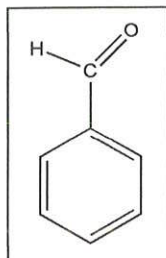
2) acetophenone



3) benzyl alcohol



4) benzaldehyde



5) benzoic acid

