

1) (a) cis-2-penten-1-ol
or
(z)

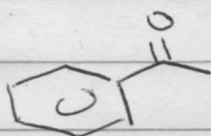
(b) 4-bromo-3-hexanone

(c) 3-methylbutanal

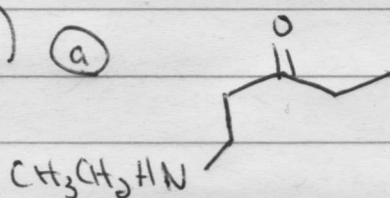
2) (a)



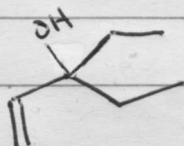
(b)



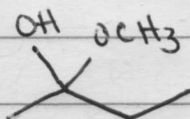
3) (a)



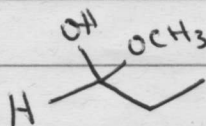
(b)



(c)



(d)



(e)

