



Exam 2013, questions and answers

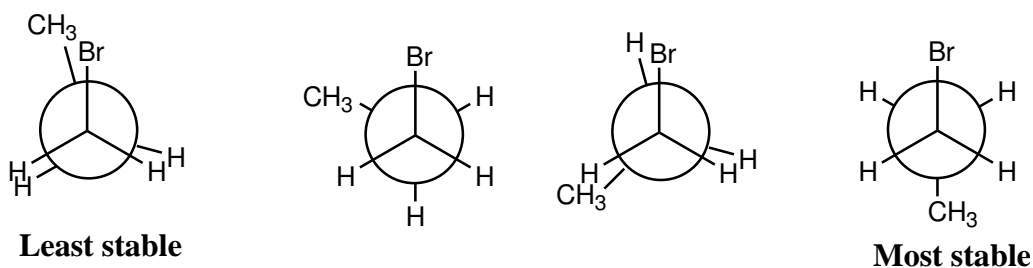
Chemistry B (University of South Africa)

CHE 1502
MAY/JUNE 2013
MEMORANDUM SECTION B

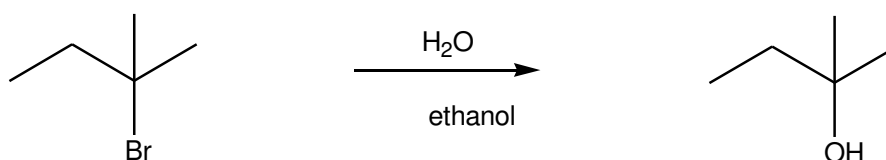
Question 1

- (a) Draw the Newman projections of the different conformations of 1-bromopropane viewing along the C1-C2- bond. Label the most stable and least stable conformation.

(6)

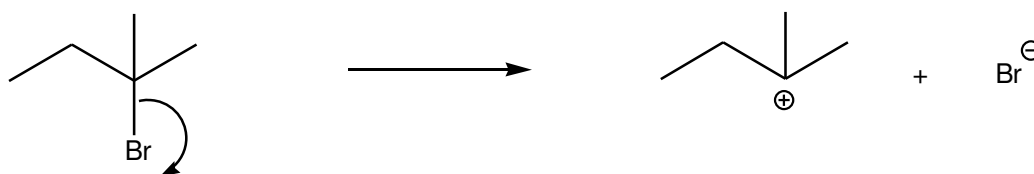


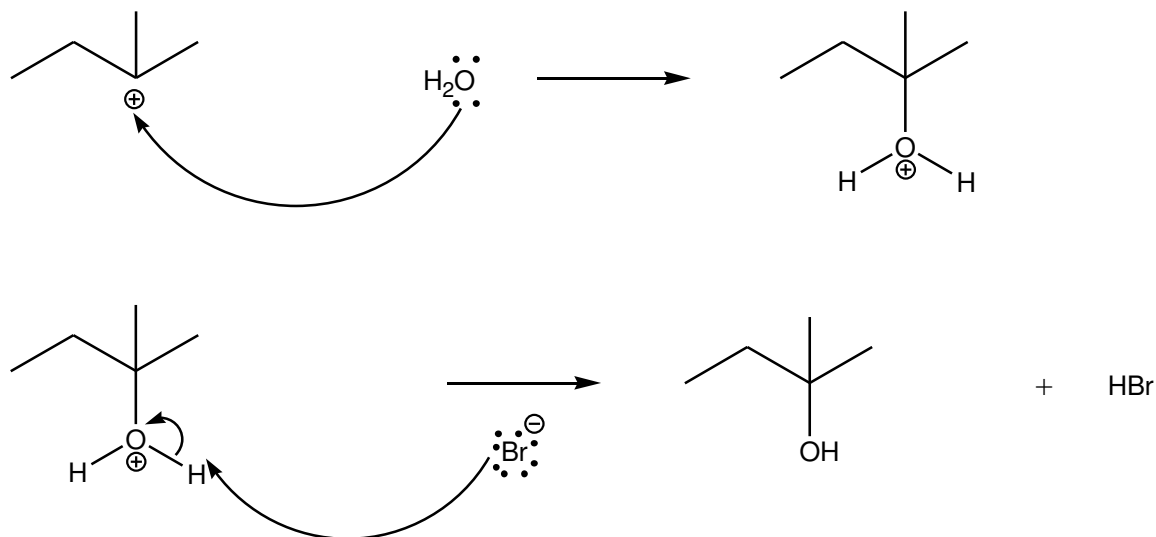
- (b) Write the detailed mechanism of the following reaction:



(4)

The mechanism of the reaction:

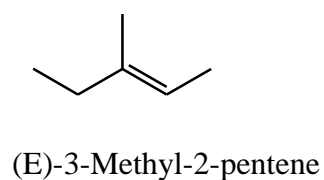
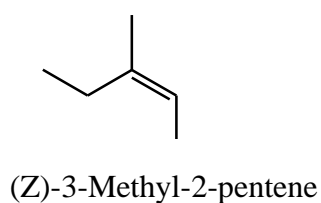




Question 2

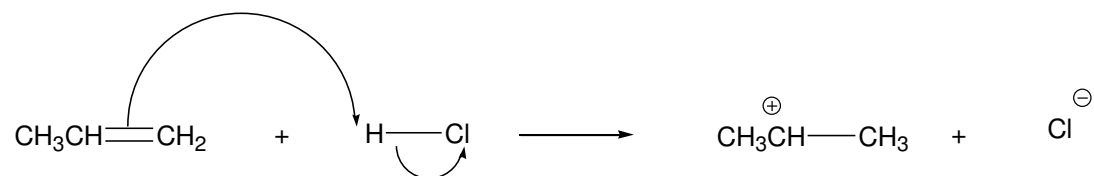
(a) Draw the structure of any secondary alcohol. (2)

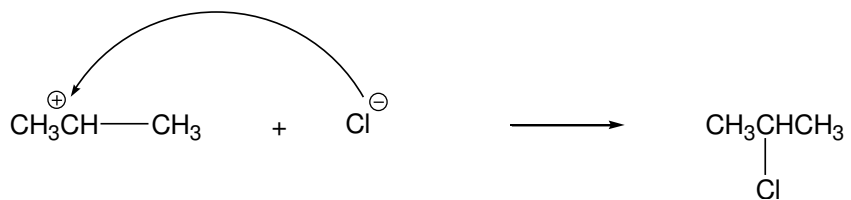
(b) Draw the geometric isomers of 3-methyl-2-pentene. Give the IUPAC name of each isomer (4)



(c) Give the mechanism of the reaction of HCl with $\text{CH}_3\text{CH}=\text{CH}_2$ (4)

The reaction mechanism is:





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