

Homework 3 Organic chemistry

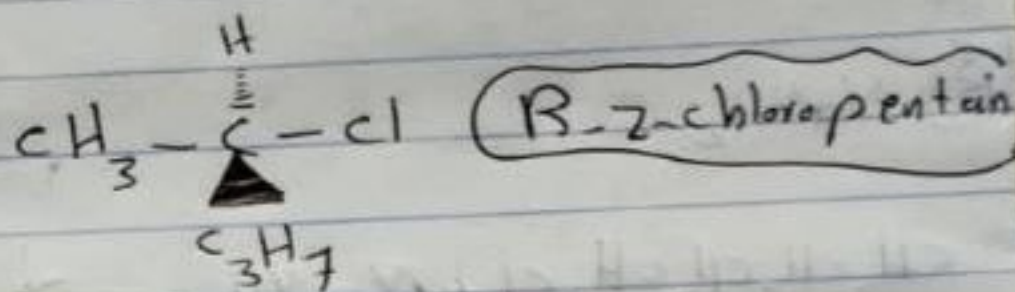
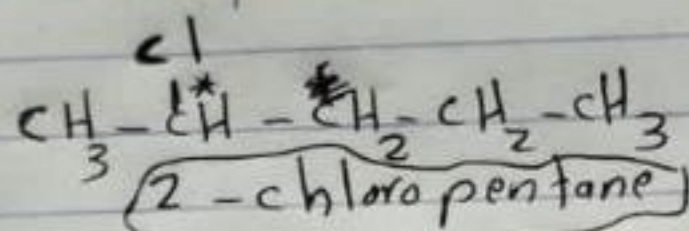
الرقم الجامعي: 20220415

السبقة: 4

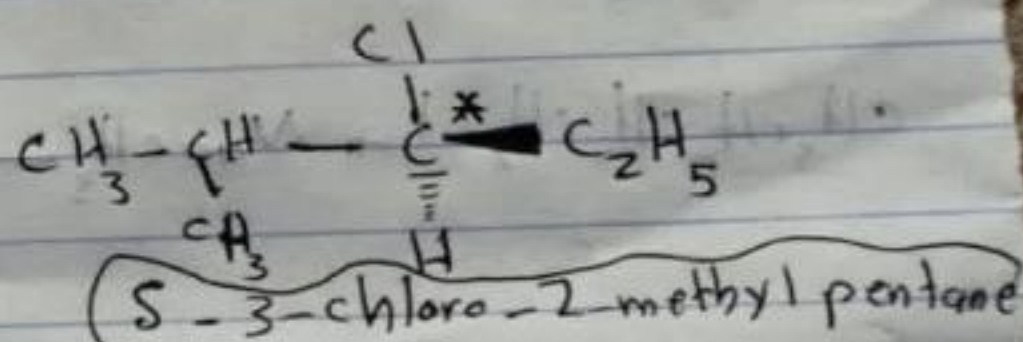
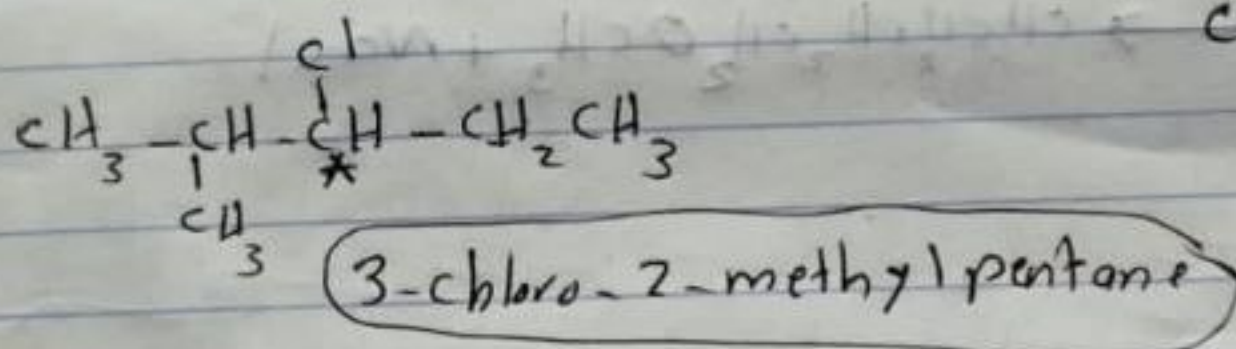
الطالب: نوح محمد دبور

[I] Draw the following compounds and label the chiral carbon(s).

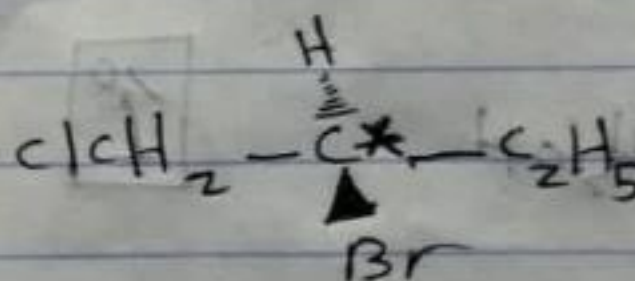
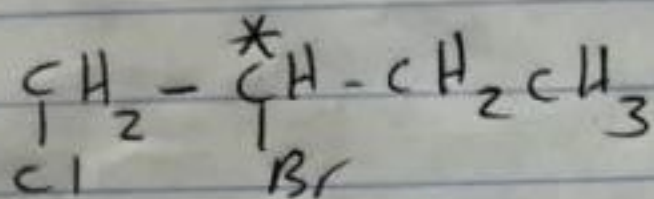
[A] R-2-chloropentane



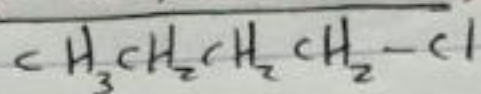
[B] S-3-chloro-2-methylpentane



[C] R-2-bromo-1-chlorobutane



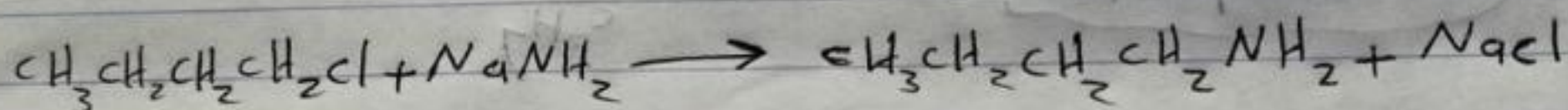
[2] Give the structures of the products expected from the reaction of (n-butylchloride) with:



[A] NaOH (aq)



[B] NaNH_2

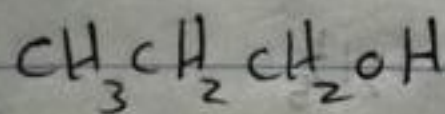


[C] NaOCH_3



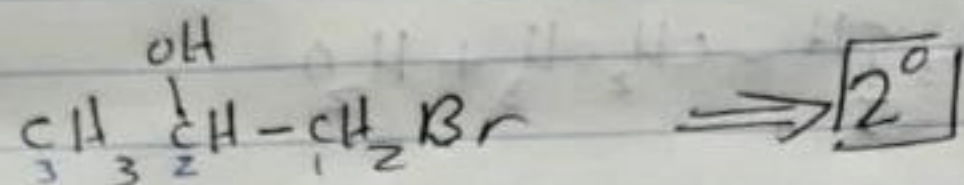
[3] Draw out the structural formula and classify the following alcohols as 1° , 2° or 3°

[A] 1-propanol

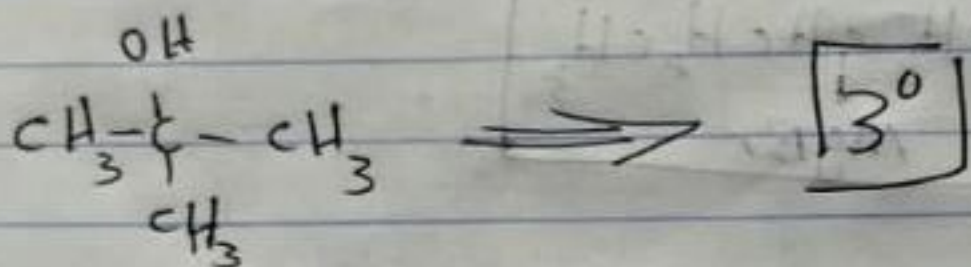


1°

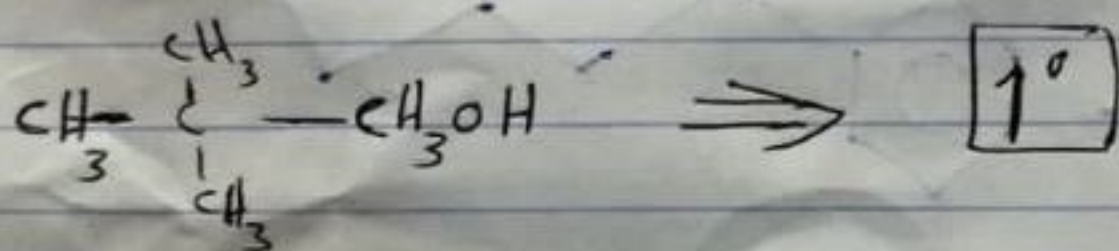
[B] 1-Bromo-2-propanol



[C] 2-methyl-2-propanol

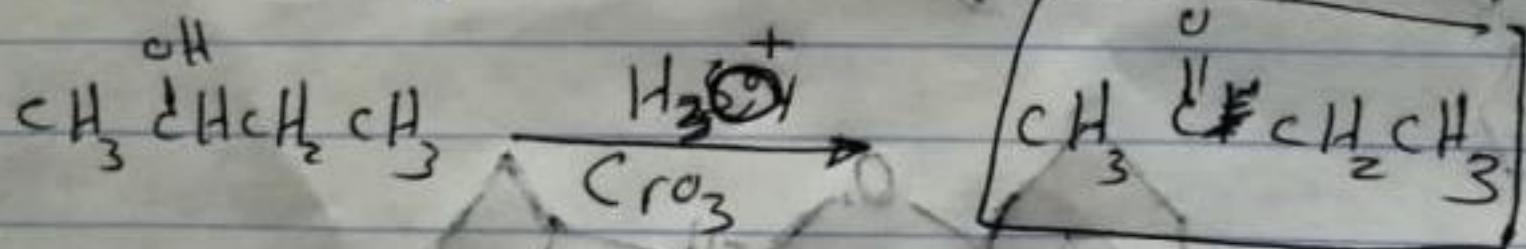


[D] 2,2-dimethyl-1-propanol



[4] Give the structures of the products expected from the reaction of 2-butanol with:

[A] Jones' reagent

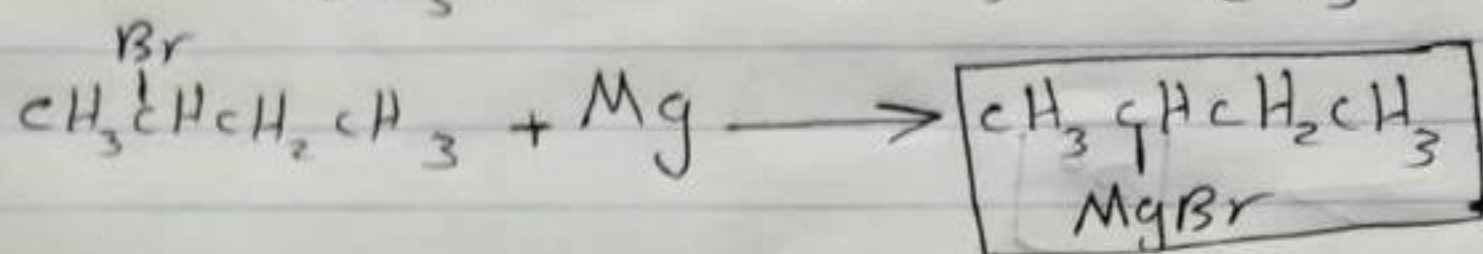
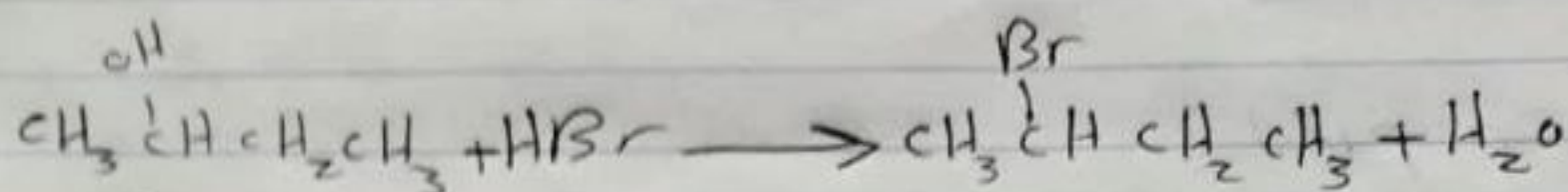


[3]

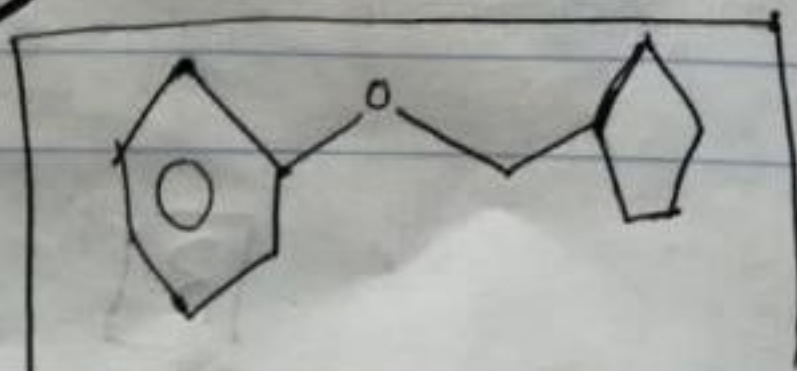
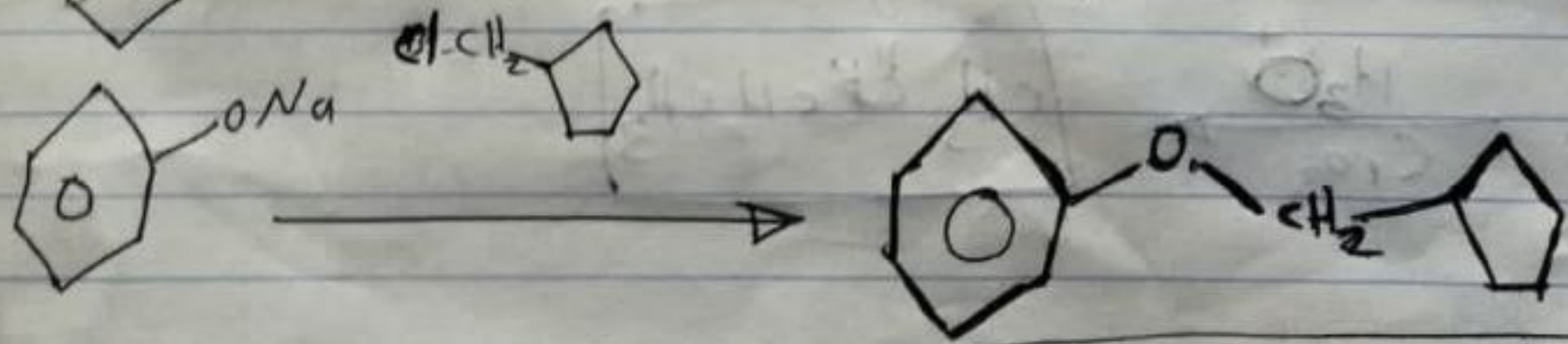
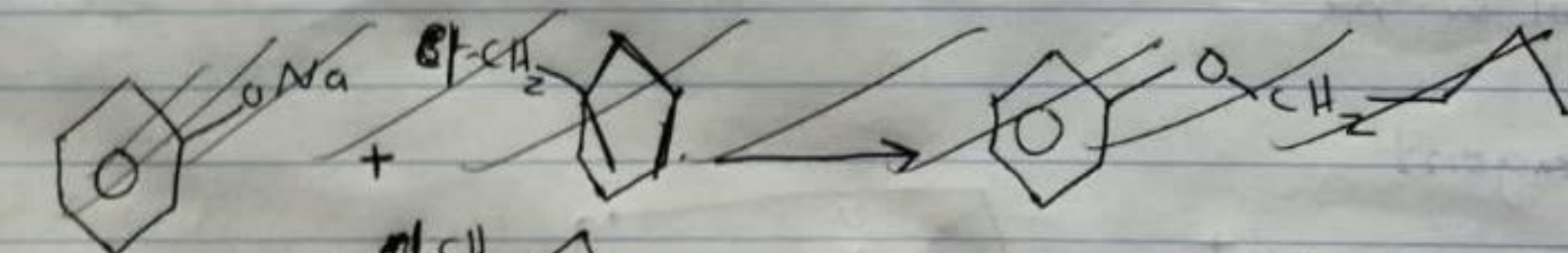
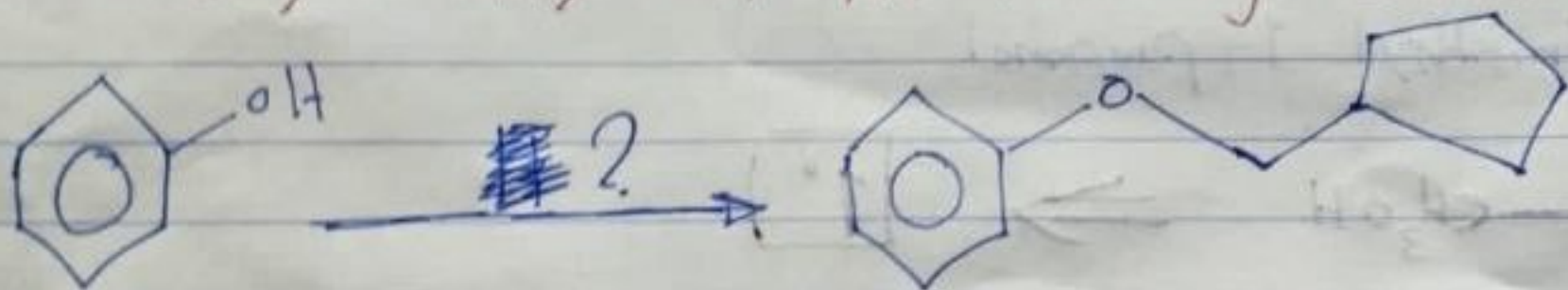
[6] HI



[7] HBr then with Mg



[5] How would you carry out the following conversion?



[4]