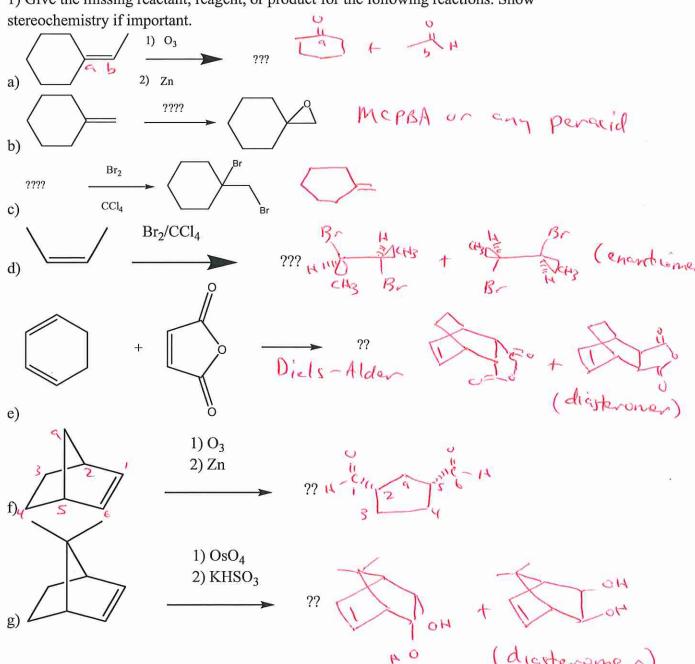
Assignment # 14 Organic 211 Fall 2020

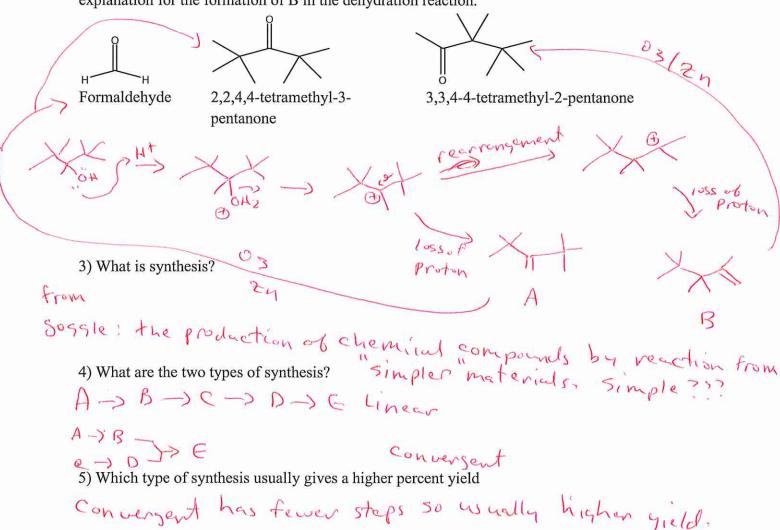
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1) Give the missing reactant, reagent, or product for the following reactions. Show

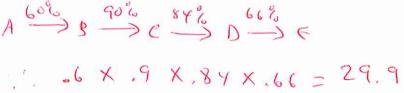


rearrangement

2) Dehydration of 2,2,3,4,4-pentamethyl-3-pentanol gave two alkenes A and B. Ozonolysis of the lower boiling alkene gave formaldehyde and 2,2,4,4-tetramethyl-3-pentanone. Ozonolysis of B gave formaldehyde and 3,3,4,4-tetramethyl-2-pentanone. Identify A and B and suggest an explanation for the formation of B in the dehydration reaction.



6) Show the yield for a four step reaction with step 1 working in 60 % yield, step 2 in 90 % yield, step 3 in 84 % yield, and step 4 in 66 % yield. SHOW YOUR WORK!!



7) Give an example of a retrosynthetic analysis.

