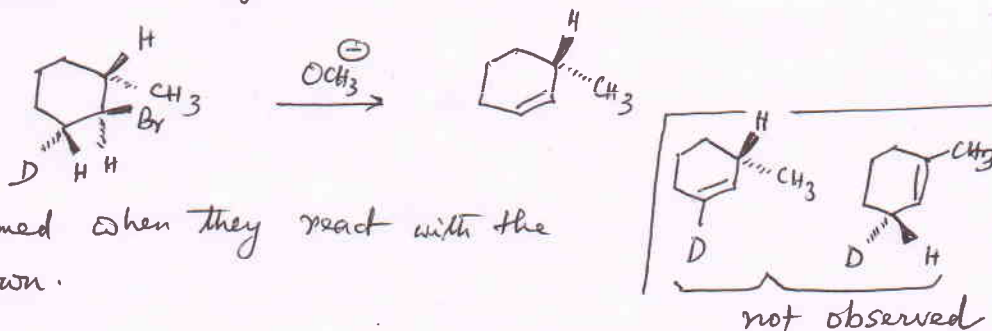
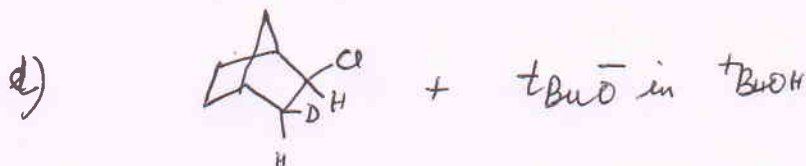
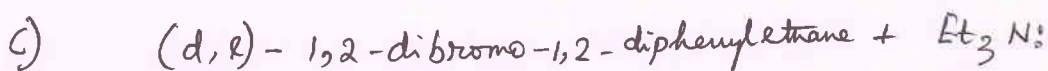
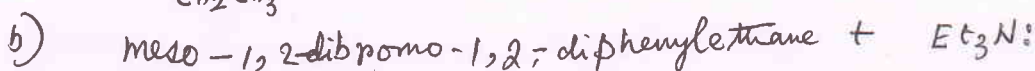
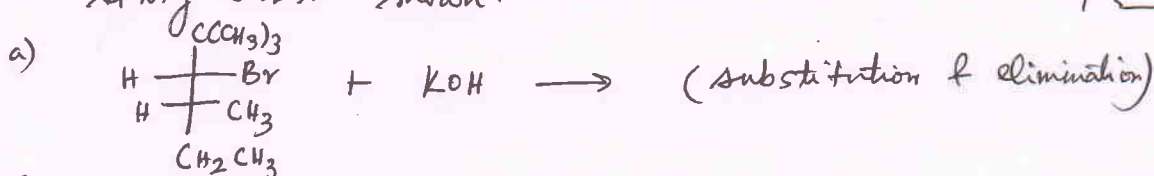


Problem set - Elimination Reactions

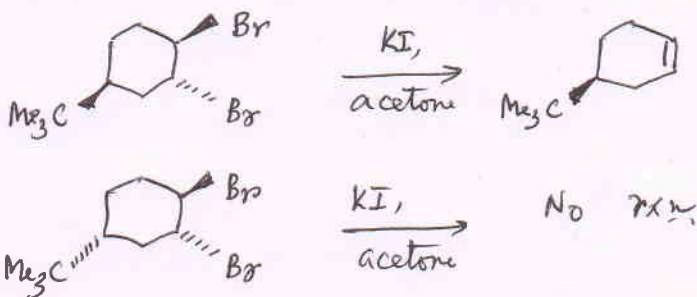
1. Explain why the following deuterated 1-bromo-2-methylcyclohexane undergoes dehydrohalogenation by E2, mechanism to give only the indicated product.



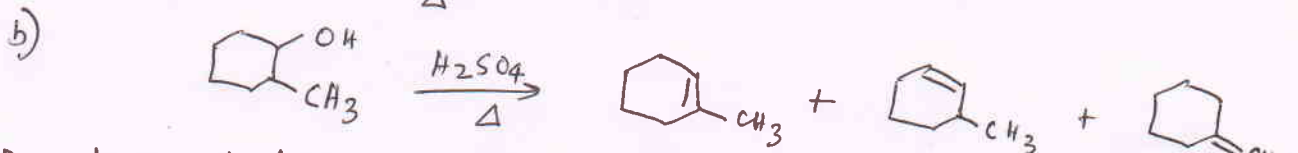
2. Predict the products formed when they react with the strong bases shown.



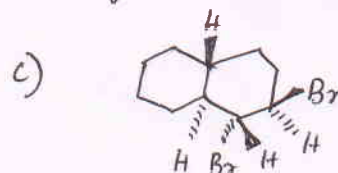
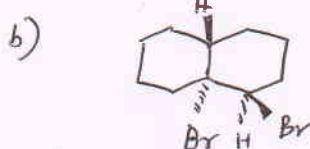
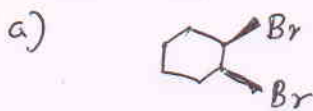
3. The following compounds show different rates of debromination. One reacts quite fast, and the other seems not to react at all. Explain the surprising difference in rates.



4. Propose mechanism for the following reaction



5. Predict products of the following eliminations of vicinal dibromides with KI.



6. Give a mechanism to explain the formation of the following product. Explain the failure to form Zaitsev product.

