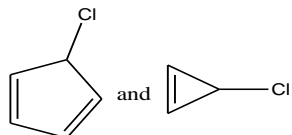


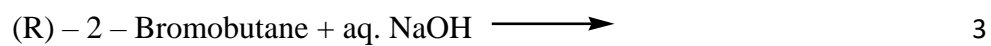
Activity Task
B.SC SEM – II
Chemistry Honours

1. Answer the following question

- a) Compare the nucleophilicities and basicities of ${}^t\text{BuO}^-$ & EtO^- 2
b) Which of the following would undergo solvolysis in ethanol more rapidly 3



- c) $\text{C}_2\text{H}_5\text{SCH}_2\text{CH}_2\text{Cl}$ is hydrolyzed in aqueous dioxane 103 times faster than $\text{C}_2\text{H}_5\text{OCH}_2\text{CH}_2\text{Cl}$. Explain with mechanism. 3
d) Give an example of nucleophilic catalyst. 2
e) Draw the stereochemistry of the major product of the following reaction



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