

Model Questions

# Molecular Rearrangements

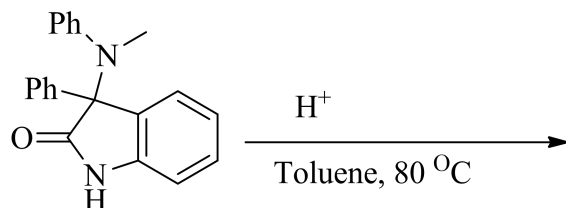
For Semester IV CBCS

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1. Fries rearrangement is both intramolecular and intermolecular. Explain the reaction with supporting evidences.

2.

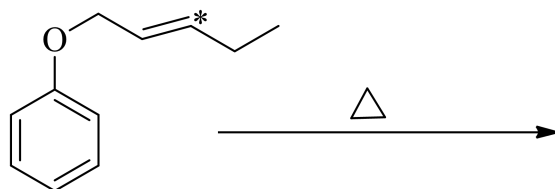


3. What happens when  $PhCH_2COCl$  is reacted with  $CH_2N_2$  and the resultant product is allowed to react with  $Ag_2O$  in water? Give the plausible mechanism.

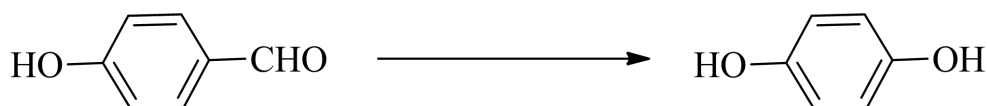
4. Predict the product(s) with mechanism.



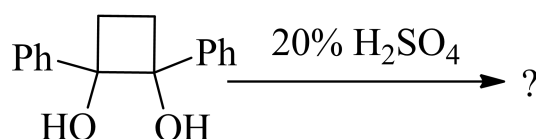
5. Predict the product(s) with mechanism.



6. Carry out the following transformation showing plausible mechanism.



7. Predict the product(s) with plausible mechanism.



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8. Carry out the following transformations giving plausible mechanism for each step.

