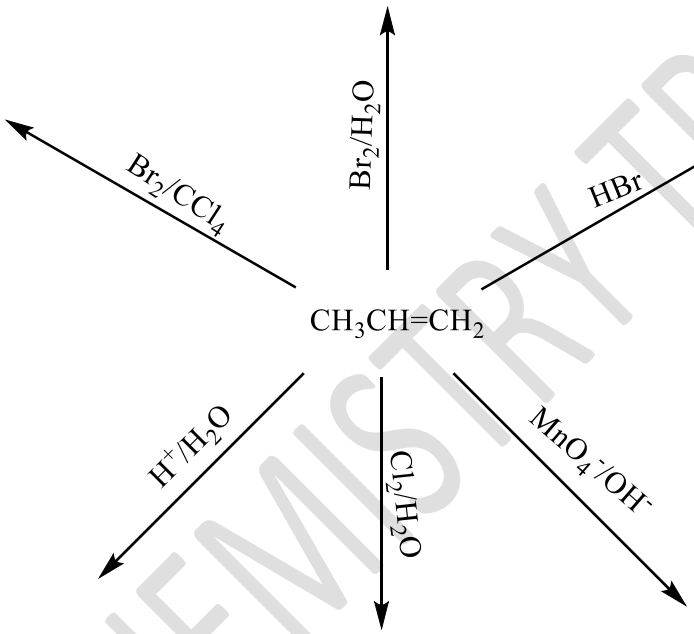
TORORO GIRLS' SCHOOL

ORGANIC CHEMISTRY TRIAL

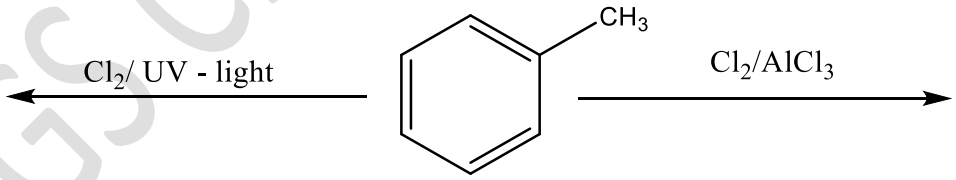
2020

Attempt all questions

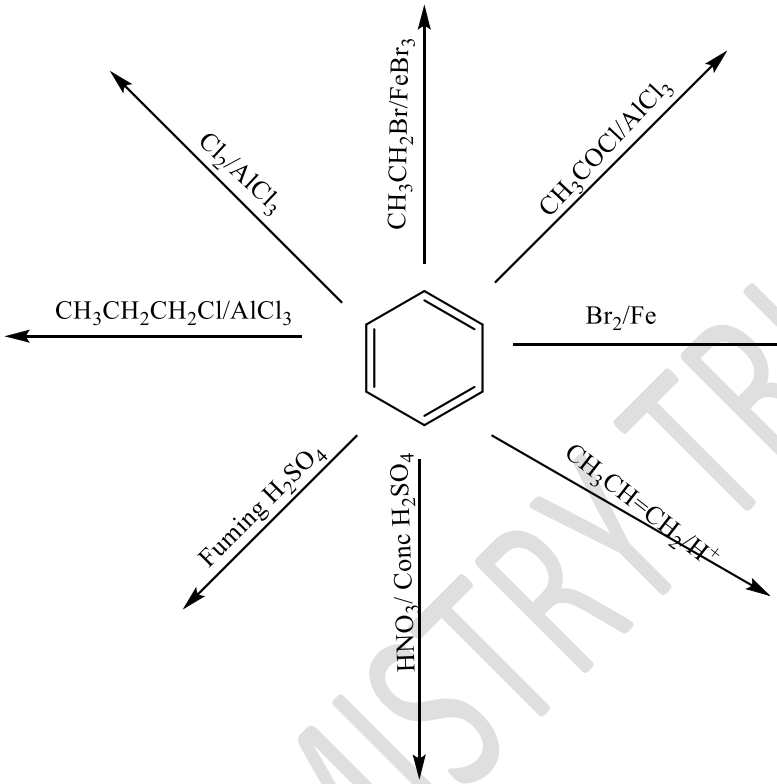
1. Complete each of the following equations and write a mechanism for the reaction.



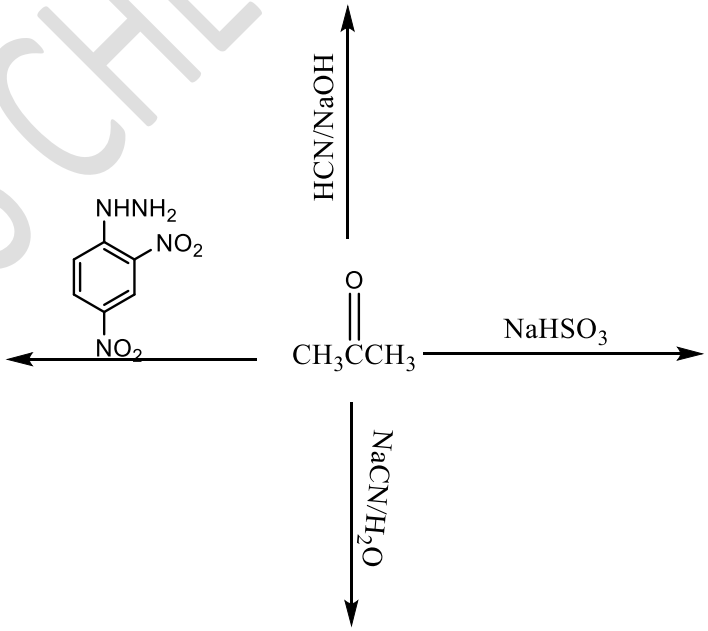
2. Complete each of the following equations and write a mechanism for the reaction.



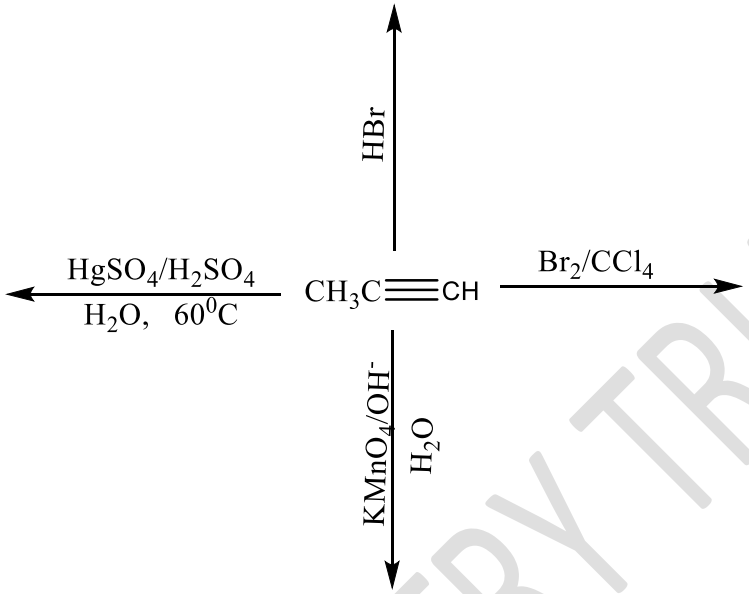
3. Complete each of the following equations and write a mechanism for the reactions.



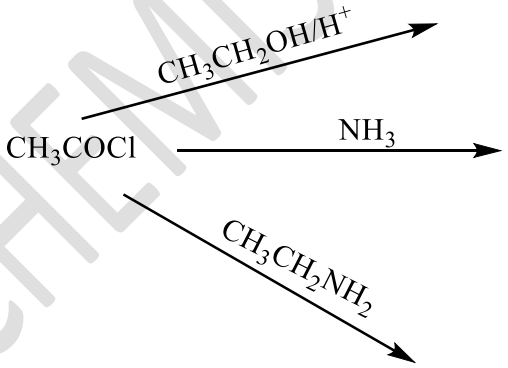
4. Complete each of the following equations and outline a mechanism for the reaction.



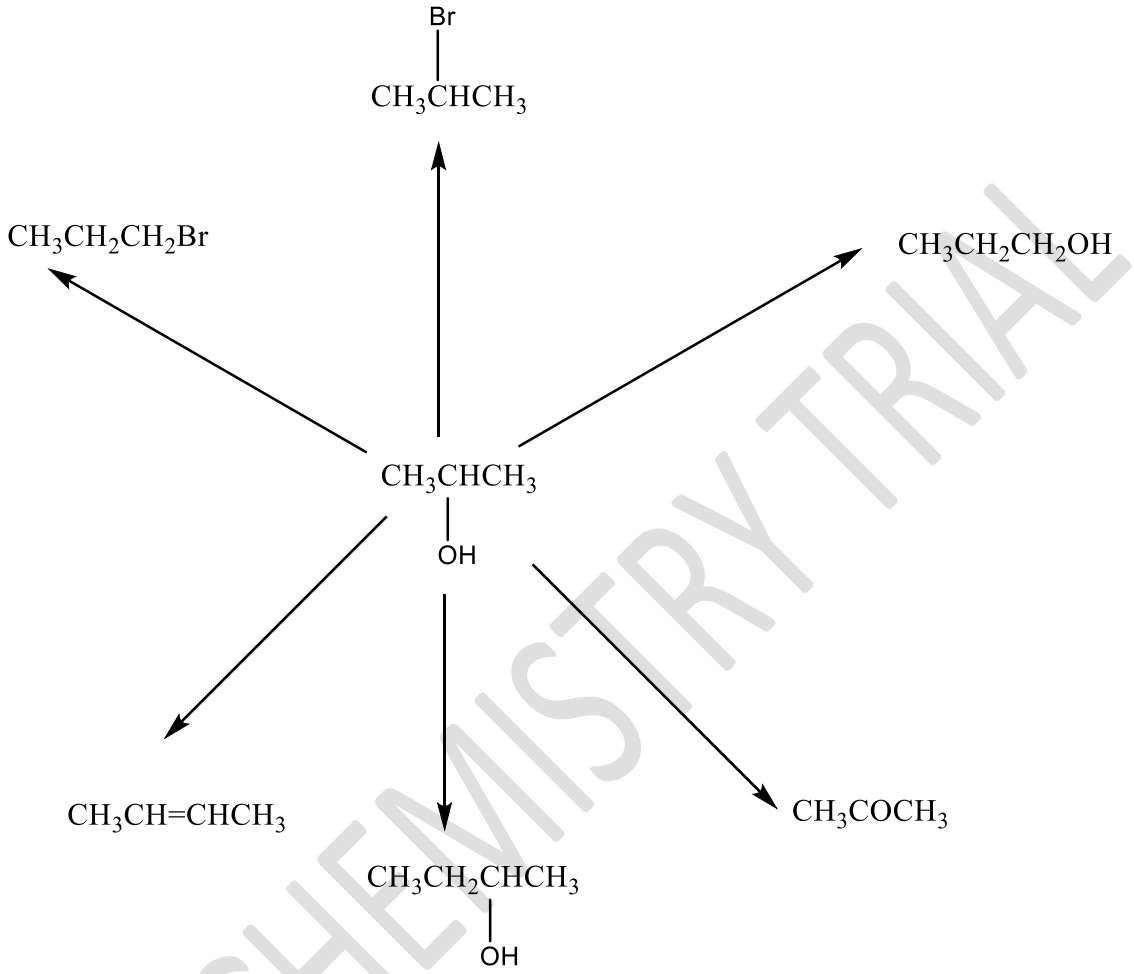
5. Complete each of the following equations and outline a mechanism for the reaction.



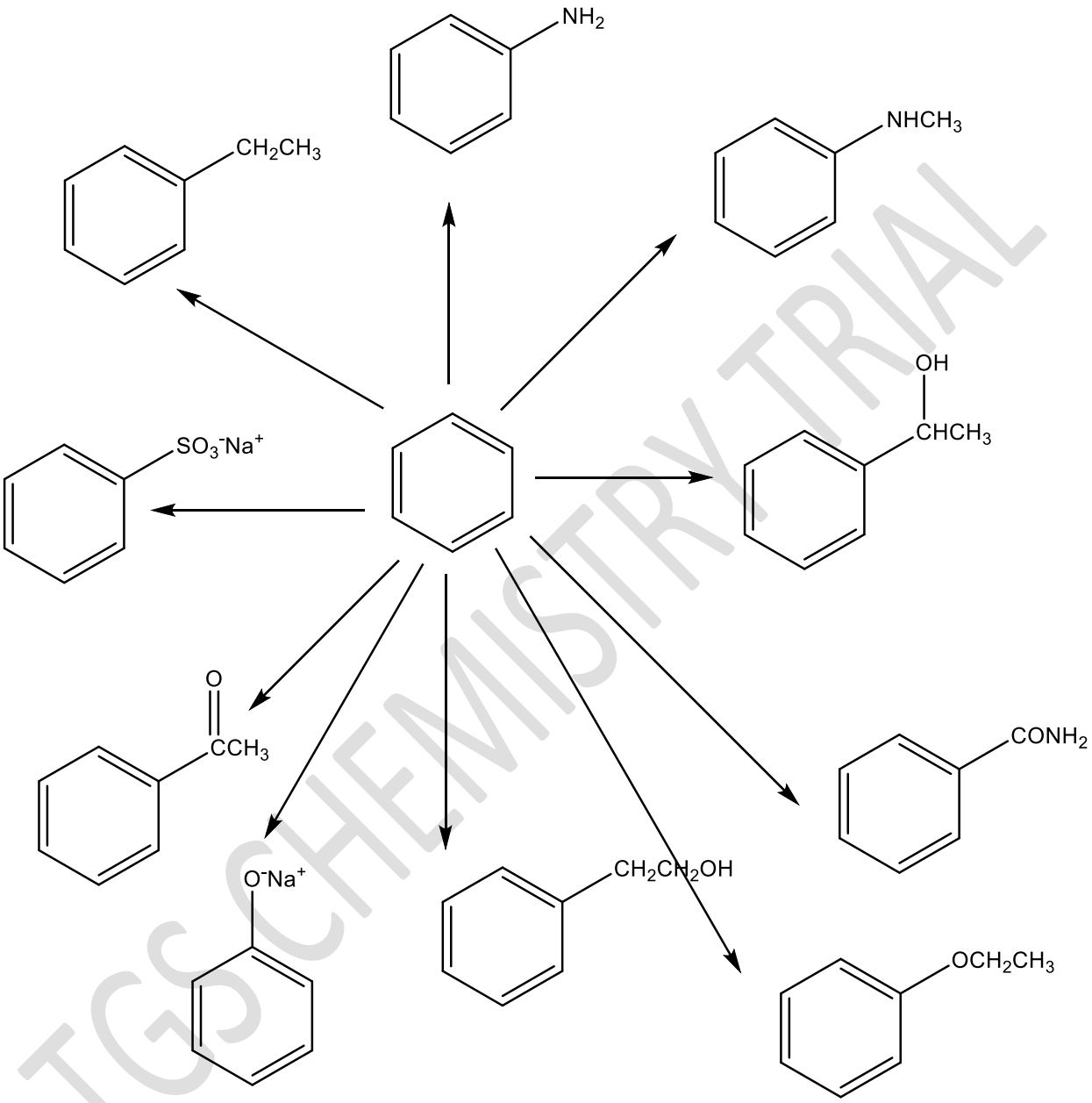
6. Complete each of the following equations and outline a mechanism for the reaction.



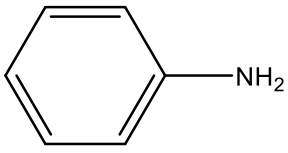
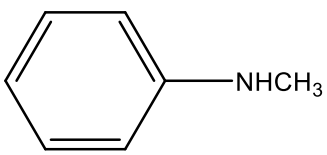
7. Using equations only show how each of the following conversions can be effected.



8. Using equations show how each of the following conversions can be effected.



9. Name a reagent which can be used to distinguish each of the following pairs of compounds or ions. Write the expected observation when the reagent is used in each case.

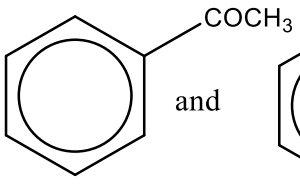
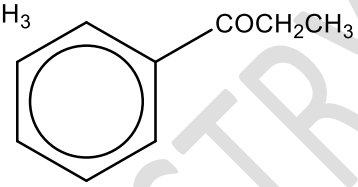
(a)  and 

(b) $CH_3CH_2CH_2OH$ and CH_3CHCH_3 (OH)

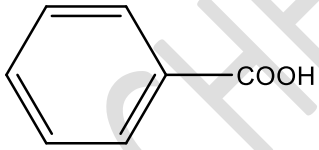
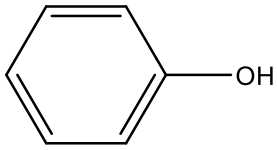
(c) CH_3CHCH_3 (OH) and CH_3CCH_3 (CH_3, OH)

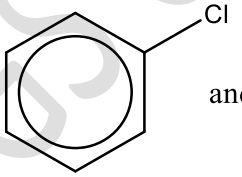
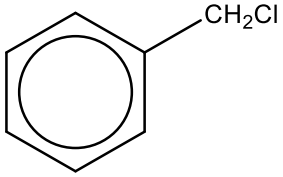
(d) $CH_3CH_2NH_2$ and CH_3NHCH_3

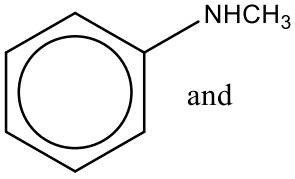
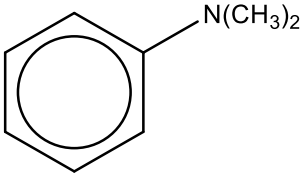
10. Sate the reagent which can be used to distinguish each of the following pairs of organic compounds, in each case sate the observation when the reagent is used.

(a)  and 

(b) $CH_3CH_2CH_2Cl$ and CH_3CHCH_3 (Cl)

(c)  and 

(d)  and 

(e)  and 

Type equation here.

1. Sate the reagent which can be used to distinguish each of the following pairs of organic compounds, in each case sate the observation when the reagent is used.

   (a) Cl^- and I^-

   (b) Cl^- and Br^-

   (c) SO_3^{2-} and SO_4^{2-}

   (d) $S_2SO_3^{2-}$ and SO_4^{2-}

   (e) CH_3COOH and $HCOOH$

   (f) CH_3CH_2CHO and CH_3COCH_3