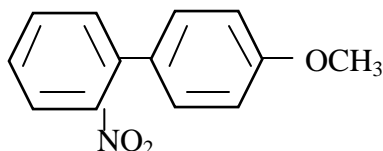


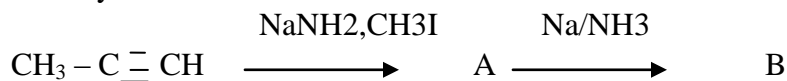
WORKSHEET

CH 10 HALOLKANES AND HALOARENES

1. Draw the structure of most stable carbonation with the formula $C_5H_{11}^+$. Give reason.
2. Draw three resonance structures that result from the ortho attack of Br_2 on toluene with $FeBr_3$ catalyst. Which of these structures is most stable?
3. Draw the structure of the product of the bromination of the following compound in presence of $FeBr_3$. Explain.



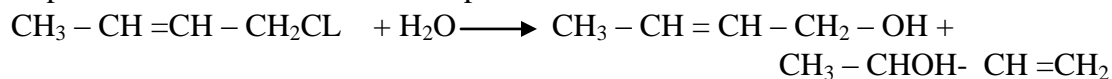
4. Identify A and B:



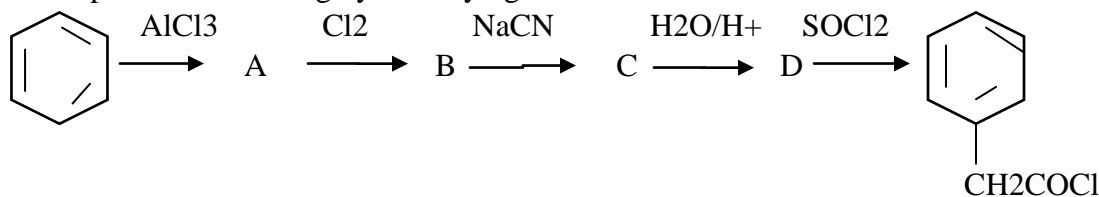
5. Convert:

- i) Chloro Benzene to Picric Acid
- ii) Benzyl chloride to benzoic Acid

6. Distinguish between $CHCl_3$ and CHI_3 .
7. Explain the formation of these two products:



8. Complete the following by identifying A to D :



9. A chloro compound 'A' showed the following properties

- i) Decolorized bromine in CCl_4 .
- ii) Absorbed hydrogen catalytically.
- iii) Gave precipitate with ammonical CH_2Cl_2 .
- iv) When vaporized 1.49g of 'A' gave 448 ml of vapours at STP. Identify A and write the equations involved.

10. Convert nitro benzene to m-bromiodobenzene.