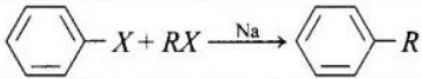
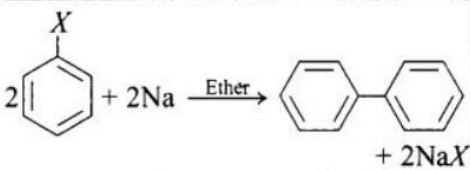
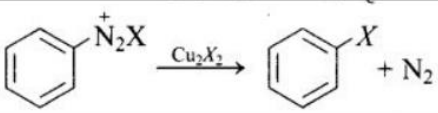


Question 84. Match the reactions given in Column I with the names given in Column II

| Column I | | Column II | |
|----------|---|-----------|-----------------------|
| (i) |  | (a) | Fittig reaction |
| (ii) |  | (b) | Wurtz-Fittig reaction |
| (iii) |  | (c) | Finkelstein reaction |
| (iv) | $C_2H_5Cl + NaI \xrightarrow{\text{dry acetone}} C_2H_5I + NaCl$ | (d) | Sandmeyer reaction |

Solution: (i → b), (ii → a), (iii → d), (iv → c)

(i) A mixture of an alkyl halide and aryl halides gives an alkylarene when treated with sodium in dry ether and this is called Wurtz-Fittig reaction.

(ii) Aryl halides give analogous compounds when treated with sodium in dry ether, in which two aryl groups are joined together. It is called Fittig reaction.

(iii) Diazonium salt when treated with cuprous chloride or cuprous bromide gives chlorobenzene or bromobenzene. The reaction is known as Sandmeyer's reaction.

(iv) Alkyl iodides are prepared by the reaction of alkyl chlorides with sodium iodide in dry acetone. The reaction is known as Finkelstein reaction.