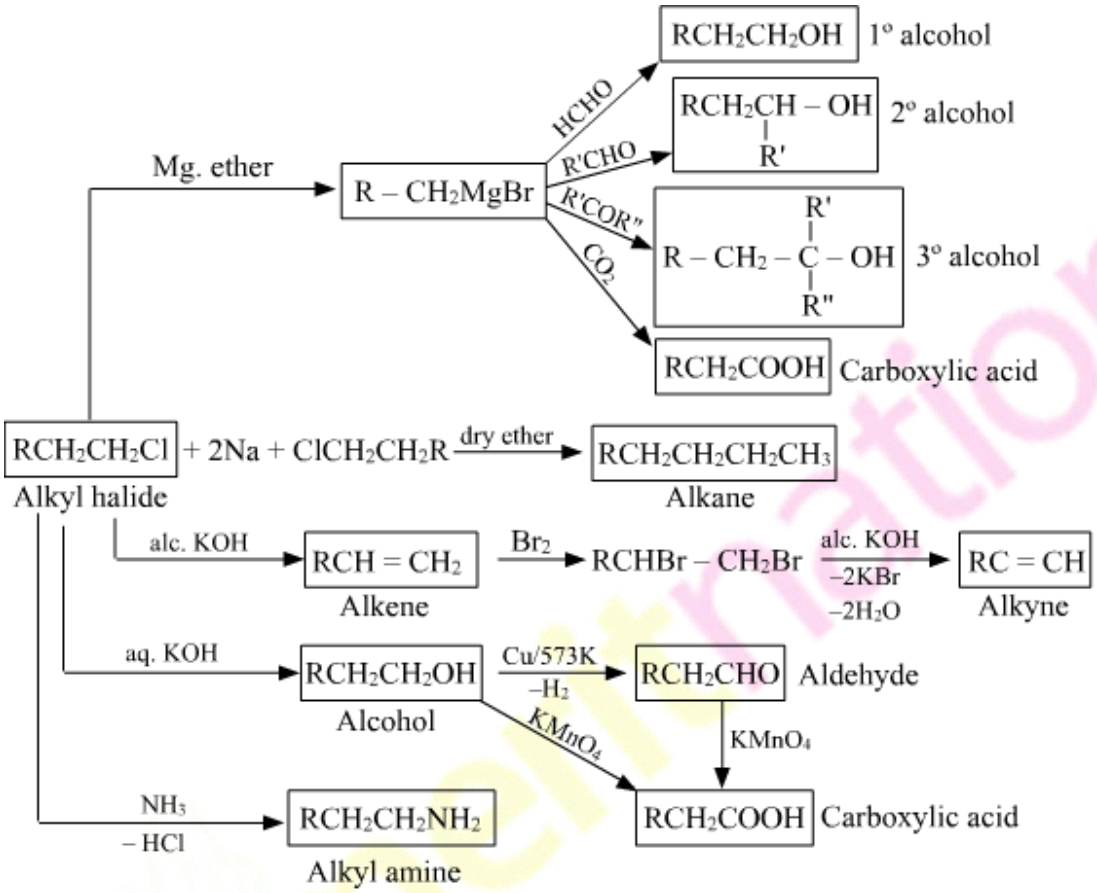
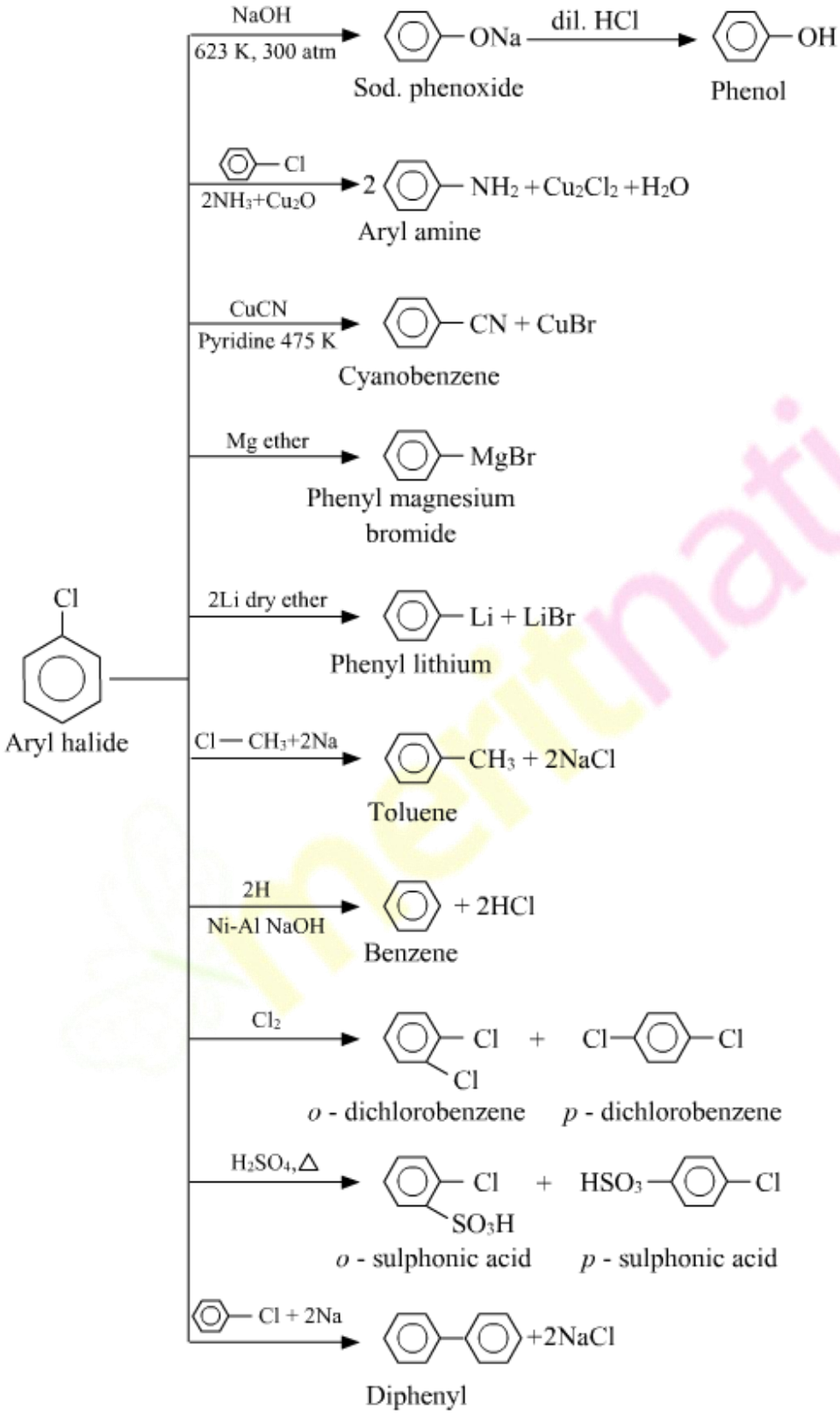
CONVERSION SCHEMES IN ORGANIC CHEMISTRY

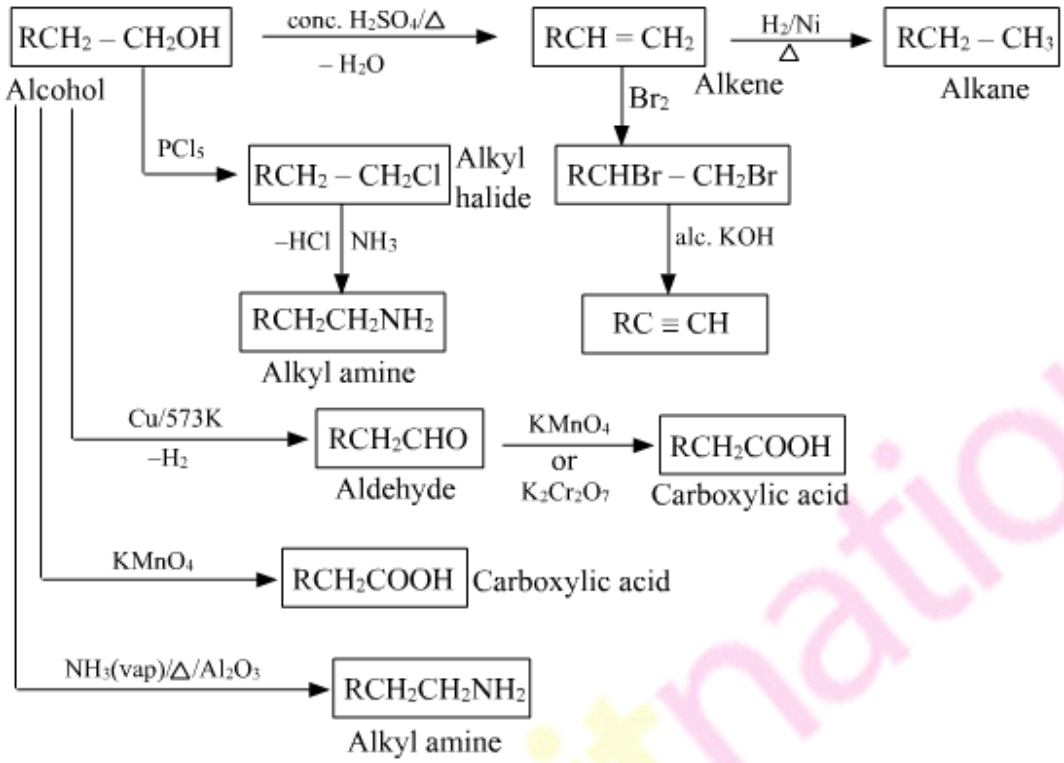
SCHEME – I: Conversions related to alkyl halides



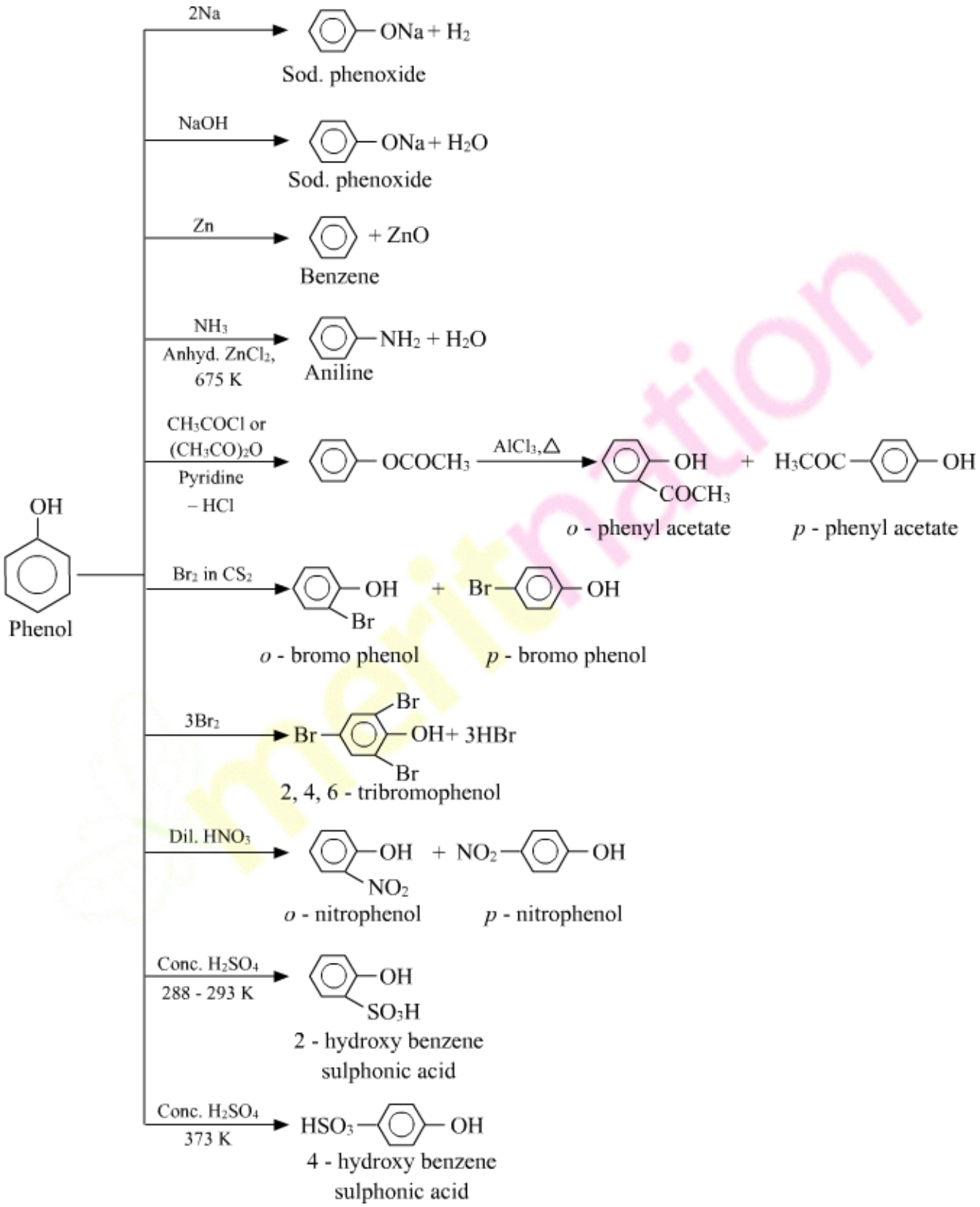
SCHEME – II: Conversions related to aryl halides



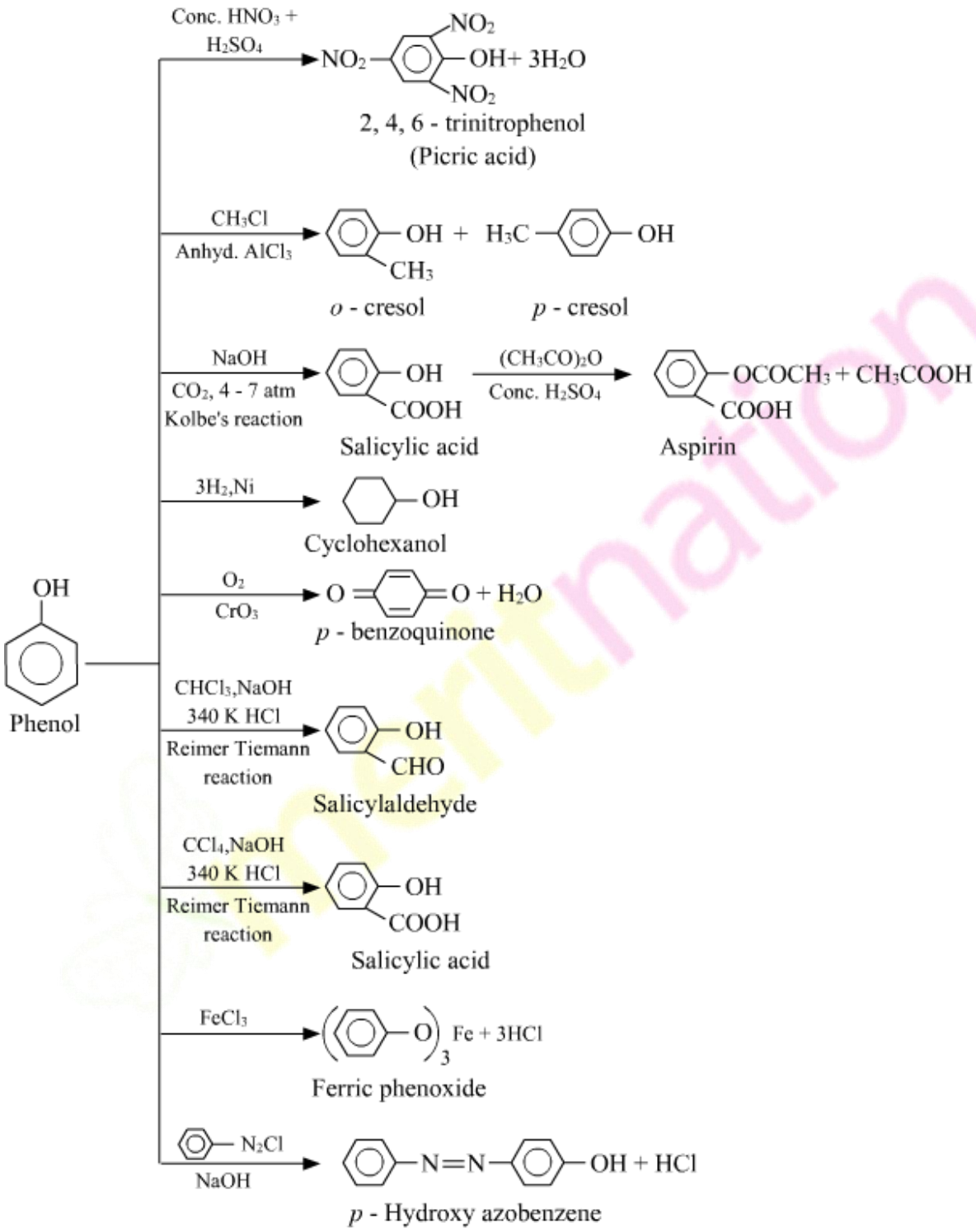
SCHEME – III: Conversions related to alcohols



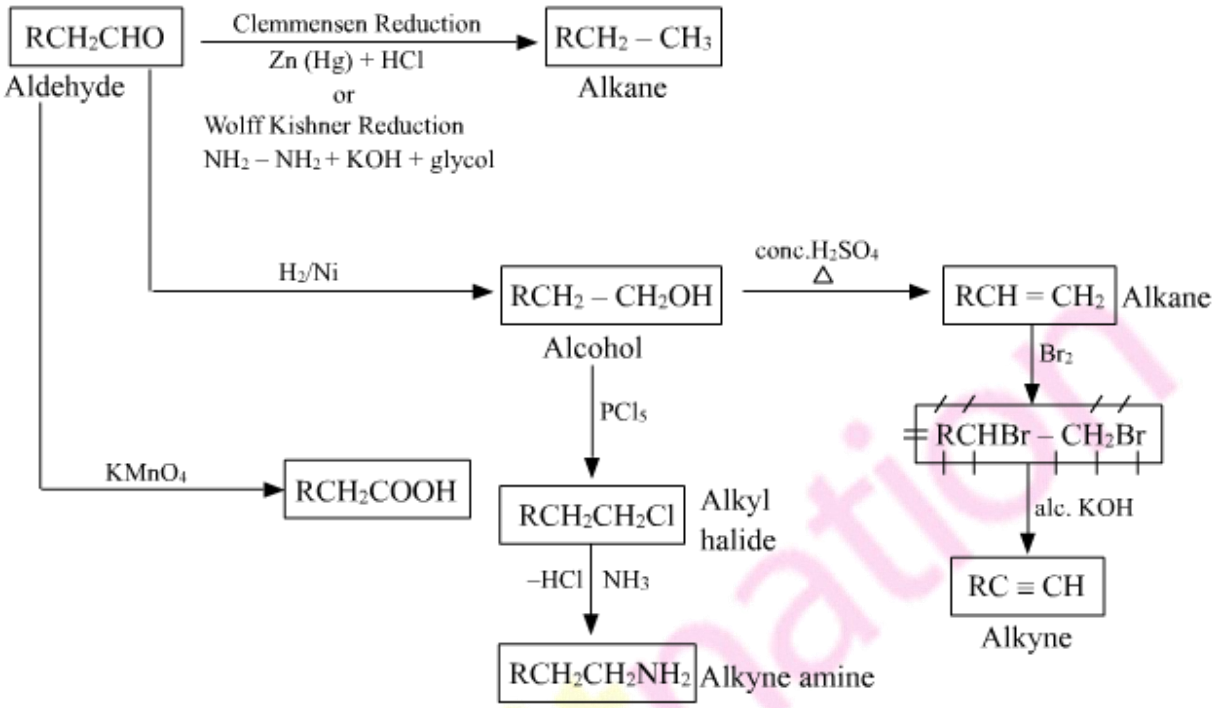
SCHEME – IV: Conversion related to phenols – I



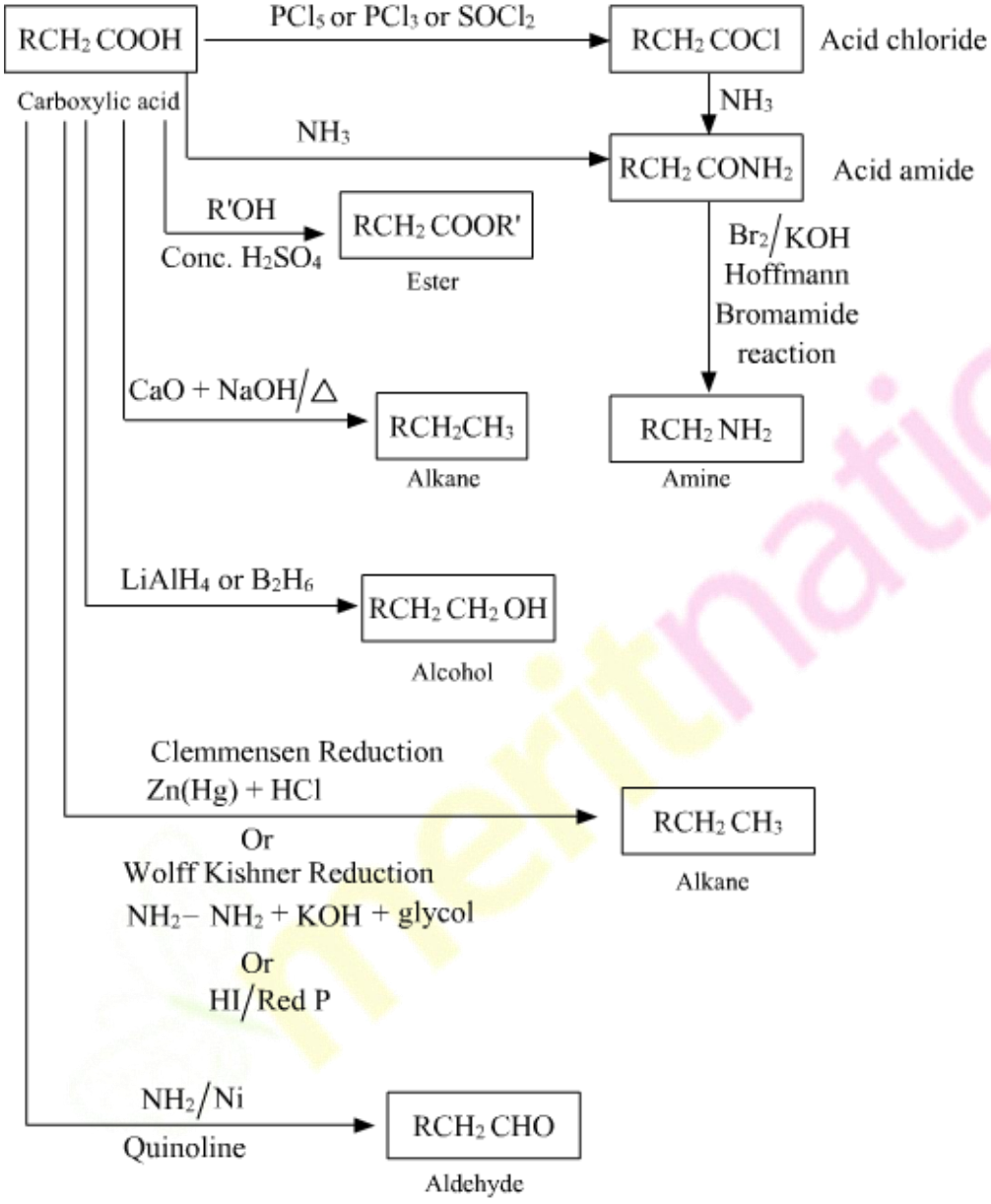
SCHEME – V: Conversion related to phenols – II



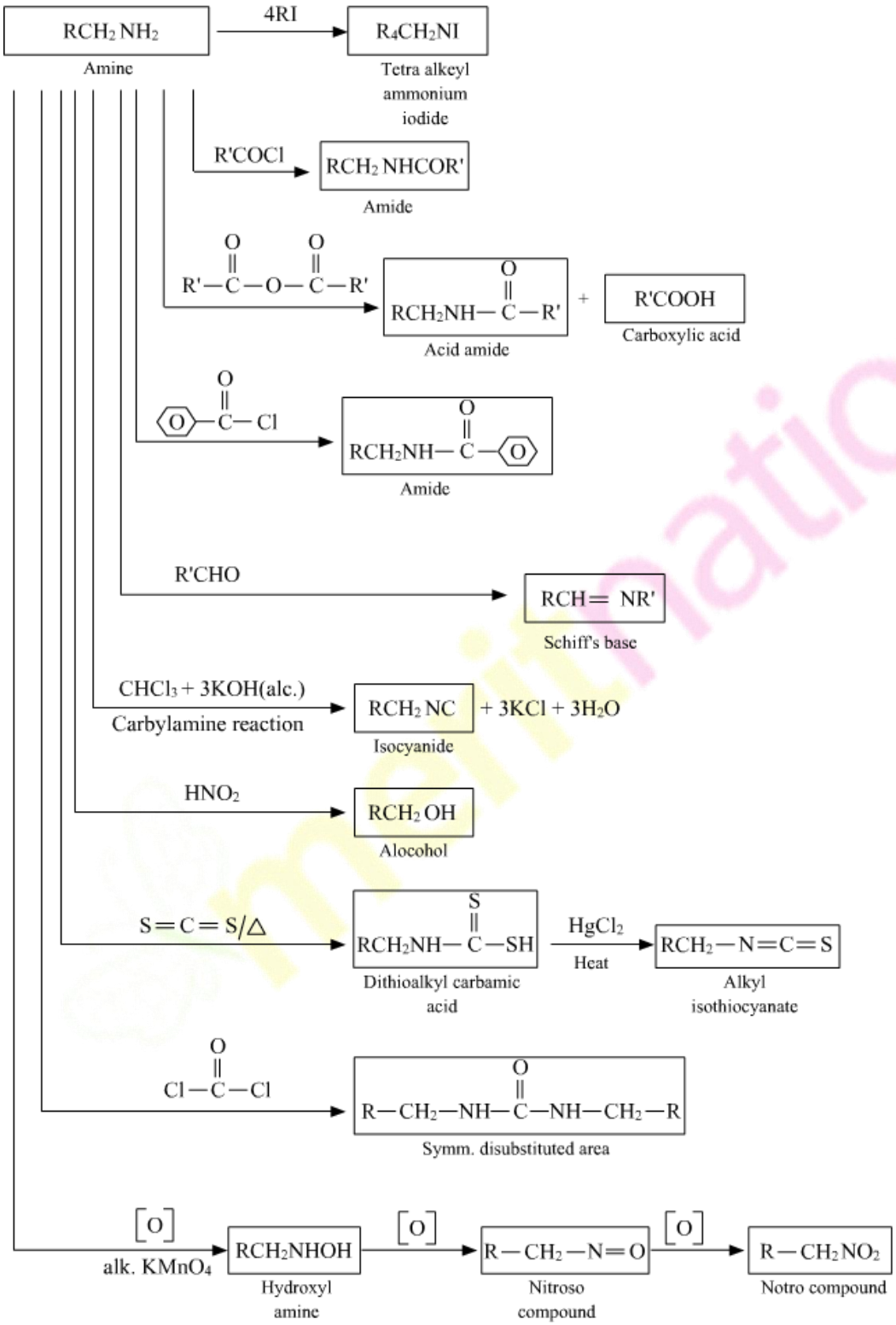
SCHEME – VI: Conversion related to aldehydes



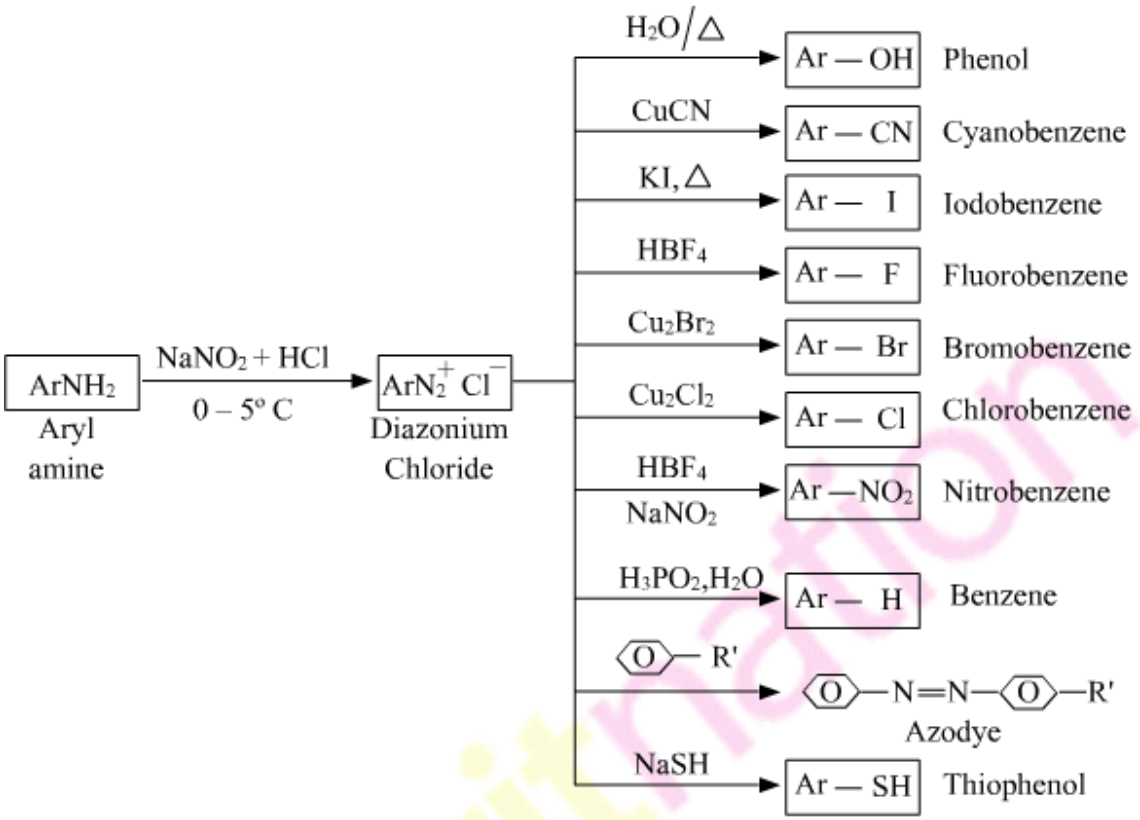
SCHEME – VI: Conversion related to carboxylic acids



SCHEME – VII: Conversion related to alkyl amines



SCHEME – VIII: Conversion related to aryl amines



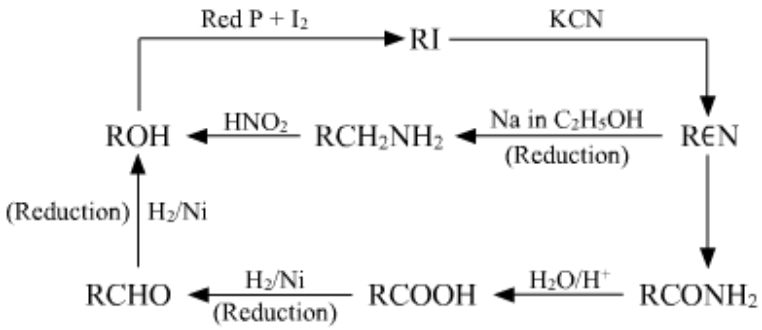
ASCENDING SERIES

(1) By Wurtz Reaction

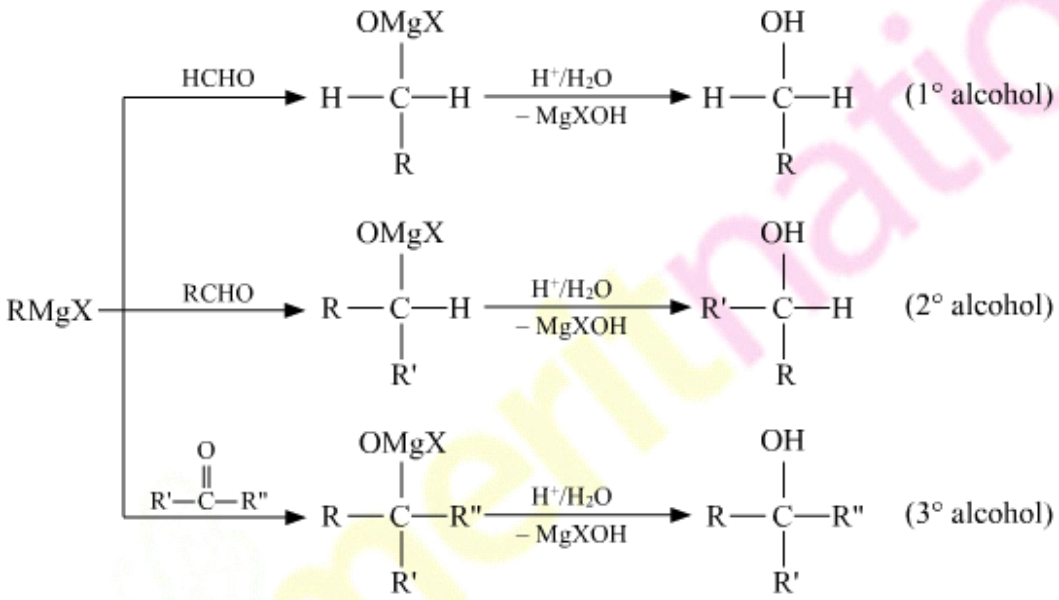
$$R - X + 2Na + X - R \xrightarrow{\text{Dry ether}} R - R + 2NaX$$

$$R - X + 2Na + X - R' \xrightarrow{\text{Dry ether}} R - R' + 2NaX$$

(2) By Using Cyanide



(3) By using Grignard's Reagent

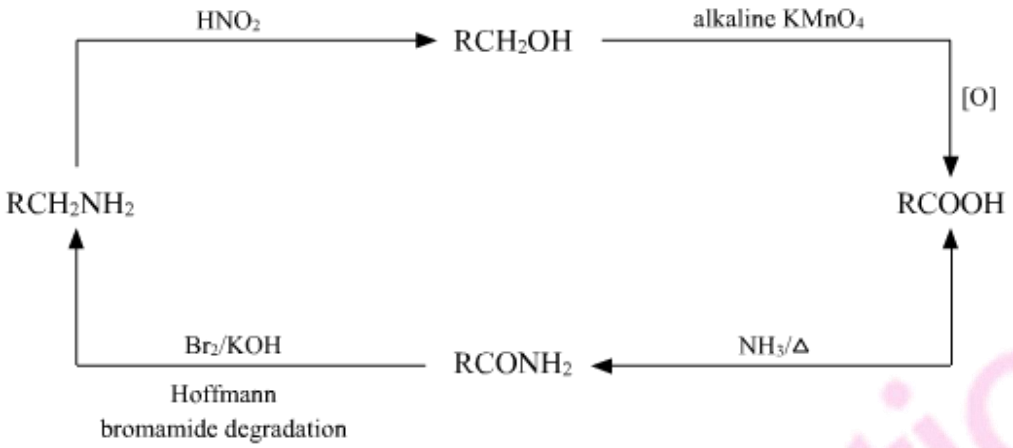


(4) **By using Sodium Alkylnides**

This reaction is used for terminal alkynes.

DESCENT OF SERIES

(1) Hoffmann Bromamide reaction



(2) Decarboxylation reaction