- Q1 Which of the following compound will not undergo azo coupling reaction with benzene diazonium chloride.
- (i) Aniline
- (ii) Phenol
- (iii) Anisole
- (iv) Nitrobenzene

## ANSWER: OPTION (IV) IS CORRECT

Diazonium cation is a weak electrophile and hence reacts with electron rich compounds containing electron donating groups such as -OH, -NH2 and -OCH3 groups and not with compounds containing electron withdrawing groups such as -NO2, etc.