Question 18. Which of the following reaction will yield phenol?

Solution:

(a, b, c)

CI
Fusion with NaOH
at 300 atm

$$H_2O/H^+$$
 H_2O/H^+
 H_2O/H^+

Haloarene requires extreme conditions for nucleophilic substitution reaction. Chlorobenzene does not undergo hydrolysis on treatment with aqueous NaOH at 298 K and 1 atm.