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**GRADE: XII CYCLE TEST-4 DATE: 11.07.18**

# SUBJECT: CHEMISTRY MARK: 20

1. Give two reactions hat show the acidic nature of phenol. Compare its acidity with ethanol. (5)
2. How would you obtain the following: (10)

a. Benzophenone from phenol b. Propan-2-ol from propene

c. 2-methylpropene from 2-methyl propanol

d. phenol to anisole e. Propene to propan-1-ol

f. Ethanol to propan-2-ol g. Aniline to phenol

h. Cyclohexylmethanol from formaldehyde

i. 2-Methylbutan-2-ol to 2-Chloro-2-methylbutane

j. A suitable alkene to 1-phenyl ethanol

3. Write short note on: (3)

a. Kolbe’s reaction b. Reimer-Tiemann reaction

4. Write the mechanism of Williamson’s ether synthesis (2)