



ASSIGNMENT NO. 2

SUBJECT: CHEMISTRY

CLASS-XII

MAY, 2025

Chapter: 7- Alcohol, phenol and ether

Q1. Write mechanism for preparation of alcohol by hydrolysis of alkenes.

Q2. Explain the following with example:

(a) Hydroboration oxidation (b) Preparation of alcohols using RMgX and carbonyl compounds

Q3.(a) Write the preparation of phenol using benzene, fuming H_2SO_4 and NaOH .

(b) Write the preparation of phenol using aryl halides.

Q4.(a) What happens when propanone reacts with $\text{CH}_3\text{CH}_2\text{MgBr}$.

(c) What happens when methanal reacts with $\text{CH}_3\text{CH}_2\text{MgBr}$.

Q5. Why phenol does not show protonation reaction?

Q6. Explain Lucas test giving example.

Q7. Explain the following name reactions:

(a) Reimer Tiamman reaction (b) Dehydration of alcohols at 413K

Q8. Write the mechanism for hydrolysis of alkenes.

Q9. Explain the Lucas test with chemical equation.

Q10. Give reason for the following:

(a) Three degree alcohols give faster Lucas test.

(b) OH -(hydroxy) group present at benzene activate it for electrophilic substitution.

Q11. Write reaction for preparation of aspirin from salicylic acid.

Q12. Explain the Kolbe's reaction.

Q13. Explain the following name reactions with example:

(a) Williamson synthesis (b) Kolbe's reaction