



ASSIGNMENT NO. 3

SUBJECT: CHEMISTRY

CLASS-XII

MAY, 2025

Chapter: 9-Ammines

Q1. Write reaction to prepare fluorobenzene from benzene.

Q2. Explain the following with example:

(a) Nitration of aniline (b) Bromination of aniline

Q3.(a) Write the preparation of aniline using benzene.

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

Q4.(a) What happens when propanamine reacts with 3 moles with Methylchloride.

(c) What happens when methanamine reacts with CHCl_3 in basic medium.

Q5. Why aniline does not dissolve in water while it contains NH_2 group?

Q6. Explain P_{kb} of aniline is less than ethanamine.

Q7. Explain the following name reactions:

(a) Coupling reaction (b) Amonolysis

Q8. Why amides are less basic than amines.

Q9. Explain the Hinsberg's test with chemical equation.

Q10. Give reason for the following:

(a) Three degree amines are least basic in aqueous solution.

NH_2 -group present at benzene is o&p-Directiong but on nitration m-derivatives also formed.

Q11. Write reaction for preparation of dimethylamine from methanamine.

Q12. Explain the phthalimide reaction cannot use to prepare arylamines .

Q13. Explain the following name reactions with example:

(a) Hoffman bromamide reaction (b) Carbyl amine reaction