



ASSIGNMENT NO: 3

SUBJECT: CHEMISTRY

CLASS-XII

Oct.'2026

Chapter: Ald.Amines & bio:

Very short answer type questions(2marks).

1. Explain the following name reactions:

- (a) Carbylamine reaction (b) Coupling reaction(20-23)

2. Give reason for the following:

- (a) Three degree amines are more basic than one degree in gas state.
(b) Aniline shows more pK_b than ethanamine(20-22)

3. Convert the following:

- (a) Aniline into toluene
(b) Ethan amine into ethanol (20-24)

Short answer type questions (3 Marks)

4. Name one monosaccharide .

5. What structural feature is required for a carbohydrate to behave as reducing sugar?

6. Give the significance of (+)-sign in the name D-(+)-glucose

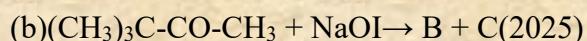
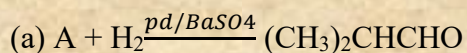
7. Give the significance of prefix 'D' in the name D-(+)-glucose(2024)

8. Give the structure of simplest optically active amino acid(20-23)

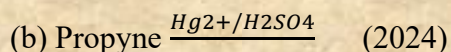
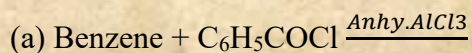
9. How would you explain the amphoteric behavior of amino acids.(20-22)

Long answer type questions(5 marks)

10. Complete the following reactions by identifying A,B and C.



11. Write the structures of main products of the following reactions:



12. What happens when:

(a) Acetaldehyde reacts with (a) NH_2OH (b) Acetone reacts with $\text{H}_2\text{N}-\text{NH}_2$ (c) 2,4-DNP. (20-23)