

ADITYA DEGREE & PG COLLEGE

ANDHRA PRADESH

MID-I EXAMINATIONS - FEB 2025

DATE 07-02-2025

B.Sc - IV SEMESTER (CHEMISTRY MAJOR)

TIME: 3 Hrs
MAX MKS: 60M

NITROGEN CONTAINING ORGANIC COMPOUNDS

SECTION-A

I. Answer any FIVE of the following questions:

5 X 4 = 20 M

- **1.** Coupling reaction.
- 2. Hinesburg Reagent Method
- 3. What are Amino acids? Write Acidic, Basic Neutral Amino acids.
- **4.** Explain zwittor ION.
- **5.** Definition of Isoeletric point.
- **6.** Classification of \propto , β , δ Amino acids.
- **7.** What is peptide? Write their Nomenclature.
- 8. Classification of Amines.

SECTION-B

II. Answer all the following questions:

 $4 \times 10 = 40 \text{ M}$

- **9**. a) Explain preparation of Amines.
 - (OR)
 - b) Explain preparation of Amino acids.
- **10**. a) How to prepare diazonium salts? Write any three properties.

(OR)

- b). Explain properties of Amino acids-reaction involved CooH group and NH₂ group.
- **11**. a) Explain with Mechanism carbylamines, Hoffmann Exhaustive methylation, Cope elimination.

(OR)

- b) Explain about proteins.
- **12.** a) How to distinguish 1°, 2°, 3° Amines write their reactions.

(OR)

b). Classification of Amino acids.