



# ADITYA DEGREE & PG COLLEGE ANDHRA PRADESH

MID-I EXAMINATIONS – FEB 2025

B.Sc - IV SEMESTER  
(CHEMISTRY MAJOR)

TIME: 3 Hrs  
MAX MKS: 60M

DATE 06-02-2024

GENERAL AND PHYSICAL CHEMISTRY

## SECTION-A

I. Answer any FIVE of the following questions:

5 X 4 = 20 M

1. Write the Classification of elements by biological system.
2. What are diastereomers? Give example.
3. What is specific rotation?
4. What are Enantiomers?
5. Explain sodium/ potassium pump.
6. Toxicity of Pb, Cd.
7. Write about symmetry elements.
8. What is Myoglobin? Importance.

## SECTION-B

II. Answer all the following questions:

4 X 10 = 40 M

9. a) Explain structure of Haemoglobin. Importance of Haemoglobin.  
(OR)

b) Explain optical isomerism with examples.

10. a) Explain Toxicity of Hg and As.

(OR)

b) Write about molecular representations?

11. a) What are the similarities and differences between Haemoglobin and Myoglobin.

(OR)

b) Explain Importance of Trace elements like copper, Zn, Fe.

12. a) What are chelating agents? Importance in medicine.

(ORs)

b). Explain R, S-configuration method of compounds.