



ADITYA DEGREE COLLEGES KAKINADA

General and Physical Chemistry

IV Sem - MID Exam - I

Marks : 60M

Time : 3 hr

SECTION - A

I Answer The Following Questions.

5 X 4 = 20M

1. Write a note on Meso compounds & Racemisation.
2. Write a note on enantiomers & Diastereomers with example.
3. What is optical activity.
4. Define the terms i) plane of symmetry ii) centre of symmetry iii) alternating axis of symmetry.
5. Write a note on chelating agents in medicine.
6. Discuss role on Nickel in biological system
7. Define trace elements
8. What is the biological significance of sodium and magnesium.

SECTION - B

II Answer The Following Questions.

4 X 10 = 40M

9. a) Write a note on haemoglobin and myoglobin.
(or)
b) Write a note on Na^+ / K^+ pump.
- 10.a) Discuss the Geochemical effect on the distribution of metals?
(or)
b) Write a note on cisplatin as anti cancer drug.
- 11.a) Write a short note on i) Newman projection formula. ii) sawhorse & projection formula
iii) fischer projection formula. iv) Flying - wedge projection formula.
(or)
b) What are toxic metal ion ? Discuss the toxic effect of arsenic & lead?
- 12.a) Discuss about carboxy peptidase & carbonic anhydrase ?
(or)
b) Discuss the importance of iron in biological system ?