



ADITYA DEGREE COLLEGES

ANDHRA PRADESH

IV SEMESTER –MID-I EXAMINATIONS

Date:

SUB : General and Physical chemistry(major)

Max Marks : 60M

Time : 2 Hr

SECTION- A

I. Answer any five questions:

5 X 4 = 20 M

1. Optical rotation and specific rotation?
2. chiral molecule and plane polarised light?
3. Explain classification of elements according to their action in biological system?
4. Geo chemical effect?
5. Explain toxicity of "Hg"?
6. Explain toxicity of "cd"?
7. Explain optical isomerism of Glyceraldehyde?
8. Explain cisplatin as an anti-cancer drug?

SECTION- B

II. Answer all the questions:

4 X 10 = 40 M

9. a) What is optical isomerism ? Explain optical isomerism of Alanine and Lactic acid.
Or
b) Explain molecular representations.
10. a) Define enantiomers and diastereomers. Explain enantiomers and diastereomers of Tartaric acid and 2,3 dibromopentane.
Or
b) Explain optical isomerism of Tartaric acid and 2,3 dibromopentane.
11. a) Explain Hemoglobin?
Or
b) Explain excess and deficiency of some trace elements.
12. a) Explain Myoglobin?
Or
b) Explain Na / k pump?

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