



Date: 27-10-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL the questions. Each question carries two marks: (10 x 2 =20 marks)

1. Write the preparation of p-nitrobenzene.
2. Name and classify the following amines:
(i) $(\text{CH}_3)_2\text{NCH}(\text{CH}_3)_2$ (ii) $\text{H}_2\text{N}(\text{CH}_2)_4\text{NH}_2$
3. How is pyrrole prepared?
4. How is degradation study useful in the structural elucidation?
5. What do you understand by 1,3-diaxial interaction?
6. How are geometrical isomers distinguished by dipole moment?
7. What is meant by (+) and (-) notation?
8. Write the Fischer projections of lactic and tartaric acids.
9. Give an example for intermolecular rearrangement reaction.
10. Write Cope rearrangement reaction.

PART-B

Answer EIGHT questions. Each question carries five marks: (8 x 5 =40 marks)

11. Write any five chemical reactions of nitromethane.
12. How are primary, secondary and tertiary amines distinguished and separated from a mixture?
13. Starting from aniline how will you prepare:
(i) p-nitroaniline and (ii) sulphanilic acid
14. Write a short note on nucleophilic substitution reactions of pyridine.
15. What happens when quinoline and isoquinoline are oxidised using alkaline KMnO_4 ?
16. Write the synthesis of camphor from camphoric acid?

