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B.Sc (Non Medical) (Sem.-1)

ORGANIC CHEMISTRY

Subject Code : BSNM-101-18

M.Code : 75742

Max. Marks : 50

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying ONE marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Answer the following :

- What are homolytic bonds?
- What are electrophiles?
- What is optical activity?
- What is the axial bond?
- What is geometrical isomerism?
- Differentiate between the conformation and configuration.
- Explain one application of ethylene.
- What are dienes?
- Explain the structure of carbocation.
- Explain the Saytzeff rule.

SECTION-B

2. Explain the oxymercuration in alkanes.
3. Explain the Hoffman elimination.
4. Explain the Wurtz Reaction.
5. Explain the sequence rules.
6. Explain The Newman Projection and Sawhorse Formulae.

SECTION-C

7. Explain the reactions and formation of carbocation and explain the reactivity order.
8. Explain the Bayer's strain theory and its limitations.
9. Explain the hydroboration oxidation in alkynes with mechanism.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.