

School of Biological and Life sciences
Bachelor of Science in General Zoology Botany Chemistry
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

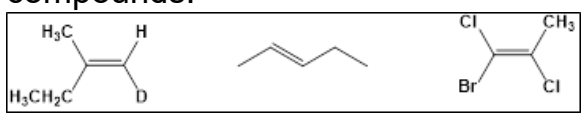
Sem I - C1UB101T - Basic Concepts and Aliphatic Hydrocarbons

General Instructions

Answer to the specific question asked

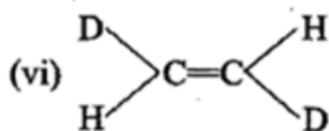
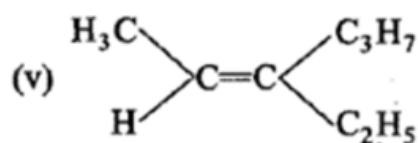
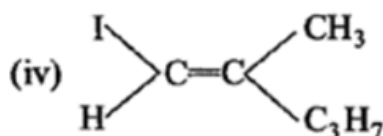
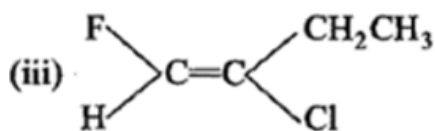
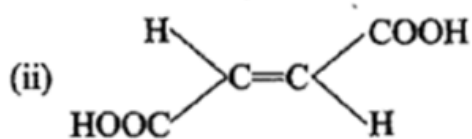
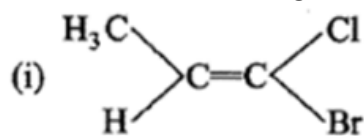
Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Discuss resonance with an example. K2 (2)
 - 2) Why hydrolysis of allyl chloride is easier than vinyl chloride? K1 (3)
 - 3) Explain mesomeric effect. Compare the basicity of the following: K2 (4)
 - 4) Discuss hyperconjugation effect. Explain the relative stabilities of alkenes as well as directive influence of alkyl groups in aromatic alkylbenzenes. K2 (6)
 - 5) Utilizing CIP rules assign E or Z configuration of the following compounds: K3 (6)
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- 6) Apply the concept of stereochemistry show how does SN2 reaction give rise to inverted product. K3 (9)
 - 7) Compare Saytzeff and Hoffmann eliminations with examples and write mechanisms. K4 (8)

8) Predict E or Z configuration of the following compounds:

K4 (12)



OR

Predict E or Z configuration of the following compounds and write CIP rules:

K4 (12)

