



SHIKSHA CLASSES

Question Paper

Subject : Chemistry

Total Marks : 25

Class : XI

14 : Basic Principles of Organic Chemistry

Time : 1 Hour

SECTION A

Q.1 : A) Choose the correct option : 4

i) Which type of isomerism is possible in $\text{CH}_3\text{CHCHCH}_3$?

- a) Position b) Chain
c) Geometrical d) Tautomerism

ii) The geometry of a carbocation is

- a) linear b) planar
c) tetrahedral d) octahedral

iii) The homologous series of alcohols has general molecular formula

- a) $\text{C}_n\text{H}_{2n+1}\text{OH}$ b) $\text{C}_n\text{H}_{2n+2}\text{OH}$
c) $\text{C}_n\text{H}_{2n-2}\text{OH}$ d) $\text{C}_n\text{H}_{2n}\text{OH}$

iv) Following, functional group isomerism is not possible?

- a) Alcohols b) Aldehydes
c) Alkyl halides d) Cyanides

: B) Answer the following : 2

i) Explain structural representation of organic compounds ?

ii) Define : bond fission.

SECTION B

: Answer the following : (ANY 3) 6

Q.2 : Distinguish between Homolysis and Heterolysis.

Q.3 : What is Carbonium ion?

Q.5 : Distinguish between electrophile and Nucleophile.

Q.6 : Write a note on hyperconjugation.

Q.7 : What is isomerism?

SECTION C

Answer the following : (ANY 3) 9

Q.8 : Detect the functional group from the following

- i) $\text{CH}_3\text{-CH}_2\text{-Br}$ ii) $\text{CH}_3\text{-CH}_2\text{-OH}$ iii)
 $\text{CH}_3\text{-CO-CH}_3$

Q.9 : Describe different types of structural isomerism

Q.10 : What is reagent? What are the different types of reagents?

Q.11 : Explain electron movement in organic reactions.

Q.12 : Explain IUPAC nomenclature of unsaturated hydrocarbons.

SECTION D

Answer the following : (ANY 1) 4

Q.13 Write a note on :

- i) Fischer projection formula
ii) Newman projection formula

Q.14 : Give the classifications of organic compounds based on structure.

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