

Hydrocarbons

Sr	Questions	Answers Choice
1	A polymer used for non -stick cookware is.	A. Teflon B. Nylon C. Polyvinyl chloride D. Polythene
2	Structural isomers differ in	A. Only the boiling point B. Only the melting point C. Arrangement of atoms D. Number of atoms
3	Hydrocarbons are compounds made of.	A. Hydrogen and oxygen B. Carbon and hydrogen C. Carbon, hydrogen, and oxygen. D. Carbon and oxygen
4	The product formed when ethene reacts with H ₂ in the presence of Ni is.	A. Ethanol B. Ethane C. Acetylene D. Butane
5	Chain isomerism occurs due to differences in	A. Functional group B. Double bond position C. Carbon chain branching D. Molecular formula
6	The shape of ethene molecule is due to	A. sp hybridization B. sp ² hybridization C. sp ³ hybridization D. d ² sp ³ hybridization
7	Which is a pair of geometrical isomers.	A. Ethane and propane B. But-1-ene and but-2-ene C. cis-but-2-ene and trans-but-2-ene D. Benzene and toluene
8	Which of the following represents a position isomer of CH ₃ CH ₂ CH=CH ₂	A. C ₂ H ₂ B. CH ₃ -CH=CH-CH ₃ C. CH ₄ D. C ₂ H ₅ OH
9	What is the correct IUPAC name of CH ₃ CH=CH ₂ ?	A. Propene B. Propane C. Ethene D. Butene
10	Cycloalkanes differ from alkanes by	A. Being cyclic B. Having higher reactivity C. Having sigma bonds D. Having delocalized electrons
11	Isomers are compounds with	A. Same molecular formula, same structure B. Different molecular formula, same structure C. Same molecular formula, different structure D. Same boiling points
12	The molecule of ethyne contains how many pi bonds.	A. 2 B. 1 C. 3 D. 0
13	What is the first step in the electrophilic addition reaction of alkenes.	A. Formation of a carbocation B. Attack by nucleophile C. Attack by an electrophile on the double bond D. Formation of a free radical
14	Alkanes react with halogens via.	A. Electrophilic substitution B. Free radical substitution C. Nucleophilic addition D. Electrophilic addition

15	Which of the following is not a property of polymers.	A. High melting point B. Flexibility C. solubility in water D. Low molecular mass
16	The number of possible isomers of C_4H_{10} is	A. 1 B. 2 C. 3 D. 4
17	An alkene undergoes ozonolysis followed by reduction with zinc dust and water to yield propanone and methanal. The alkene is	A. 1- Butene B. 2- Butene C. 2- Methylpropene D. 2- Methyl -2- butene
18	The shape of the ethane molecule is.	A. Planar B. Tetrahedral C. Linear D. Trigonal planar
19	What intermediate is formed during the electrophilic addition of HBr to an alkene.	A. Carbocation B. Carbanion C. Radical D. Epoxide
20	Alkenes undergo which type of reaction.	A. Nucleophilic addition B. Electrophilic addition C. Free radical substitution D. Nucleophilic substitution