Hydrocarbons

Sr	Questions	Answers Choice
1	The addition of water to alkenes in presence of acid catalyst forms.	A. Alcohols B. Alkanes C. Ethers D. Ketones
2	Chain isomerism occurs due to differences in	A. Funtional group B. Double bond position C. Carbon chain branching D. Molecular formula
3	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
4	The general formula for alkanes is.	A. CnH2n+2 B. CnH2n-2 C. CnH2n D. CnH2n-1
5	Which is a pair of geometrical isomers.	A. Ethane and propane B. But-1- ene and but-2- ene C. eis-but-2- ene and trans -but-2- ene D. Benzene and toluene
6	Which of the followig regent is typiclly used for the acid catalyzed hdration of alkenes to form alcohols.	A. Dilute H2SO4 B. H2/Ni C. O3 followed by Zn/H2O D. Br2 in CCl4
7	The test for unsaturation in a hydrocarbon that disappears the colour is.	A. Reaction with KMnO4 B. Reaction with NaOH C. Decolorization of Br2 Water D. Precipitate with Ag NO3
8	What type of bond cleavage occurs in the initation step	A. Homolytic B. Ionic C. Heterolytic D. Covalent
9	Markovnikov's rule is used to predict	A. Major produc t i addition of HX to alkene B. Stability of alkenes C. Ptofuvy og gtrr tsfivsl hslohrnsyion D. Hydrolysis of esters
10	The numer of possible isomers of C4H10 is	A. 1 B. 2 C. 3 D. 4
11	Which of these hydroarbons is saturated	A. Propane B. Ethyne C. Butane D. Cyclopentene
12	The enhanced stability of conjugated diens compared to isolated dienes is primarily attributed to	A. Inductive effects the double bonds B. Increases s -character of the hybridized orbitals C. Delocatisation of electrons acros the conjugated system D. Steric hindrance between the double bonds
13	The termination step in a radical chain reaction involves.	A. Chain breaking B. Light absorption C. Chain initiation D. Hydrogen abstraction
14		A. Same molecular formula, same structure B. Differnte molecular formula, same

14	Isomers are compounds with	structure C. Same molecular formula, differente structure D. Same boiling points
15	Which of the following is an addition polymer.	A. Nylon B. Bakelite C. Polyethylene D. Terylene
16	Which of the following shows position isomerism.	A. But-1 -ene and but -2- ene B. Ethene and ethyne C. Propane and propene D. Cyclohexane and benzene
17	Which hydrocarbon has only single bonds.	A. Ethene B. Ethyne C. Propane D. Benzene
18	Which of the followng reactions can an alkane undergo.	A. Addition B. Substiutution C. Polymerization D. Nitration
19	Free radical reactions typically occur in	A. Aromatic hydrocarbons B. Saturated alkanes C. Unsaturated alkenes D. Alcohols
20	Which of the following has a branched chain structure.	A. n - butane B. 2- methylpropane C. Ethane D. Propene