

Hydrocarbons

Sr	Questions	Answers Choice
1	Markovnikov's rule is used to predict	A. Major product i addition of HX to alkene B. Stability of alkenes C. Ptofuvy og gtrr tsfivsl hslohrnsyion D. Hydrolysis of esters
2	Which of the following is an aromatic hydrocarbon	A. Ethene B. Benzene C. Methane D. Cyclohexane
3	In the electrophilic addition of HBr to propene, the major product is.	A. 1- bromopropane B. 2- bromopropane C. 3- bromopropane D. Isopropanol
4	What is the first step in the free radical mechanism.	A. Termination B. Propagation C. Initiation D. Elimination
5	The most stable carbonium ion among the following is.	A. (CH3)3C+ B. CH3+ C. CH3 CH2+ D. (CH3)2CH-
6	The termination step in a radical chain reaction involves.	A. Chain breaking B. Light absorption C. Chain initiation D. Hydrogen abstraction
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	Which of the following is an addition polymer.	A. Nylon B. Bakelite C. Polyethylene D. Terylene
9	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
10	What type of bond cleavage occurs in the initation step	A. Homolytic B. Ionic C. Heterolytic D. Covalent
11	Isomers are compounds with	A. Same molecular formula, same structure B. Differnte molecular formula, same structure C. Same molecular formula, differente structure D. Same boiling points
12	Geometrial isomerism is due to.	A. rotation around single bond B. Restricted rotation around double bond C. Electronegaivity difference D. Difference in funcional groups
13	Which of the following is most stable.	A. Teriary radical B. Primary radical C. Secondary radical D. Methyl radical

14	Which of the followign is a copolymer.	A. SBR Rubber B. Polyethene C. PVC D. Polypropylene
15	The structure of methane contains how many sigma bonds.	A. 1 B. 3 C. 4 D. 2
16	The numer of possible isomers of C4H10 is	A. 1 B. 2 C. 3 D. 4
17	Anti-Markovnikov's additio occurs in the presence of	A. HBr only B. Organic peroxide C. Water D. KMnO4
18	Which compound is a cycloalkane.	A. Butene B. Cyclopentane C. Benzene D. Cyclopentane
19	Which of the following is not a property of polymers.	A. High melting point B. Flexibility C. isolubility in water D. Low molecular mass
20	What intermediate is formed duirng the electrophilic additionof HBr TO AN ALKENE.	A. Carbonation B. Carbanion C. Radical D. Epoxide