

ECAT Chemistry Chapter 19 Aliphatic Hydrocarbons

Sr	Questions	Answers Choice
1	Alkanes are gases :	A. C_{1-4} B. C_{5-10} C. C_{11-15} D. C_{10-20}
2	B-B'-dichloroethyl sulphide is commonly known as	A. Mustard gas B. Laughing gas C. Phosgene gas D. Bio gas
3	The order of reactivity of halogens in aliphatic substitution reactions is	A. $Br > Cl > F$ B. $Cl > Br > F$ C. $Cl_2 > Br_2 > F_2$ D. $F_2 > Br > Cl_2$
4	Hydrocarbons are organic compounds which contain elements such as	A. Hydrogen B. Carbon C. Hydrogen and carbon D. Halogens
5	Ethylene decolorizes cold dilute solution of $KMnO_4$. This test is known as	A. Colouration test B. Baeyer's test C. Silver mirror test D. Ring test
6	The reaction-method that does not give an alkane is	A. Catalytic hydrogenation of alkanes B. Wurtz reaction C. Hydrolysis of alkyl magnesium bromide D. Dehydrohalogenation of an alkyl halide
7	Substitution of halogen in the benzene ring requires catalyst	A. $AlCl_3$ B. $FeCl_3$ C. SiO_2 D. Organo - nickel
8	When acetylene is passed through a copper tube at $300^{\circ}C$, it polymerizes to	A. Polyacetylene B. polyethylene C. Benzene D. None of these
9	Benzene is obtained from benzene sulphonic acid by treating with	A. HCl B. $NaOH$ C. H_2 D. $NaHCO_3$
10	The method in which alkanes prepared by alkyl halides in the presence of palladium - charcoal is	A. Hydrolysis B. Electrolysis C. Hydrogenation D. Hydrogenolysis
11	Kolb's method has limited synthetic applications due to	A. Expensive catalysis B. Slow reaction C. Number of side products produced D. Salts used are very expensive
12	In which one of the following compound rings are not fused together at ortho positions	A. Phenanthrene B. Naphthalene C. Diphenylmethane D. Anthracene
13	A fuel has the same knocking property as a mixture of 70 isoctane (2, 2, 4- trimethyl pentane) and 30% n-heptane by volume the octane number of the fuel is	A. 100 B. 70 C. 50 D. 40
14	Sp^3 hybrid orbitals are oriented at an angle of	A. 107.5° B. 108.5° C. 109.5° D. 103.5°

15	The hydrocarbons having double bonds normally end with suffix	A. Ane B. Ene C. Yne D. Oic
16	Raney - nickel is the alloy of Ni with	A. Pt B. Al C. Cu D. Pd
17	When methane reacts with Cl_2 in the presence of diffused light the products obtained are	A. Chloroform only B. Carbon tetrachloride only C. Chloromethane and dichloromethane D. Mixture of a, b, c
18	The four bonds of carbon in methane are directed towards the corners of	A. Cube B. Pentagon C. Hexagon D. Tetrahedron
19	The sp^2 hybrid orbitals are oriented in space at one angle	A. 180° B. 109.5° C. 100° D. 120°
20	The order of reactivity of halogen acids towards alkenes	A. $\text{HCl} \ > \ \text{HBr} \ > \ \text{HI}$ B. $\text{HBr} \ > \ \text{HCl} \ > \ \text{HI}$ C. $\text{HCl} \ > \ \text{HBr}$ D. $\text{HI} \ > \ \text{HBr} \ > \ \text{HCl}$