

## ECAT Chemistry Chapter 19 Aliphatic Hydrocarbons

Sr	Questions	Answers Choice
1	The treatment of benzene with isobutene in the presence of sulphuric acid give	A. isobutyl benzene B. tert-Butyl benzene C. n- Butyl benzene D. no reaction
2	Hybridization in alkanes is:	A. sp B. $sp^2$ C. $sp^3$ D. $dsp^2$
3	Benzene does not undergo	A. Substitution reaction B. Addition reaction C. Oxidation reaction D. Elimination reaction
4	Which one of the following gases is used for artificial ripening of fruits ?	A. Ethane B. Ethyne C. Methane D. Propane
5	During reaction of $O_2$ and alkenes, a product:	A. Glycol B. Epoxide C. Halohydrin D. Ethylene glycol
6	Hydrogenation of alkenes/alkynes in the presence of Ni as catalyst at $3000^\circ C$ result in the formation of corresponding alkanes. This reaction is known as	A. Sabatier-senderens reaction B. Kolbe reaction C. Cannizzaro's reaction D. Haloform reaction
7	The molecule of ethane possess which hybridization	A. $sp^3$ B. $sp^2$ C. sp D. $sp^2d$
8	$\beta$ - $\beta$ - dichloroethylene sulphide is commonly known as:	A. Mustard gas B. Laughing gas C. Phosgene gas D. Bio gas
9	Which is symmetric alkene?	A. $CH_2=CH_2$ B. $CH_3CH=CHCH_3$ C. $CH_3CH=CH-C(CH_3)_2$ D. B and C
10	During the preparation of alkanes the hydrogenation of alkenes or alkynes the catalyst may be	A. $H_2SO_4$ B. Ni C. $FeO_3$ D. $Al_2O_3$
11	Cyclohexane can be converted to benzene in the presence of	A. Pt at $100^\circ C$ B. Pt at $250^\circ C$ C. Pd at room temperature D. Pt at room temperature
12	Marsh gas was the name given to	A. Methane B. Ethane C. Propane D. Butane
13	Alkanes are generally not reactive towards acids, alkalis, oxidation or reducing agents. They however undergo some reactions, which one is the reaction undergone by alkanes	A. Elimination B. Addition C. Free radical substitution D. Nucleophilic substitution
14	The order of reactivity of halogen acids towards alkenes	A. $HCl > HBr > HI$ B. $HBr > HCl > HI$ C. $HCl > HBr$ D. $HI > HBr > HCl$

15	Which one of the following is (m-xylene)	A. 1,2 dimethyl benzene B. 1,3 dimethyl benzene C. 1,5 dimethyl benzene D. 1,4 dimethyl benzene
16	Synthesis rubber is made by polymerization :	A. Chloroform B. Acetylene C. Divinyl acetylene D. Butene
17	Which of the following is not aromatic hydrocarbon	A. Benzene B. Naphthalene C. Toluene D. Cyclohexene
18	Write the name of following alkene $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$	A. 1,3 butadiene B. Buta -1, 3-diene C. Both a & b D. None
19	Synthesis of rubber is made by polymerization of	A. Chloroform B. Acetylene C. Divinylacetylene D. Butene
20	The nitration of benzene takes place when it is heated with a mixture of conc. $\text{HNO}_3$ and conc. $\text{H}_2\text{SO}_4$ at $50^\circ\text{C}$ in ratio of	A. 1 : 2 B. 1 : 1 C. 1 : 3 D. 2 : 1