

## ECAT Chemistry Chapter 19 Aliphatic Hydrocarbons

Sr	Questions	Answers Choice
1	Which is symmetric alkene?	A. $\text{CH}=\text{C}-\text{CH}_2$ B. $\text{CH}_2=\text{CH}-\text{CH}_2$ C. $\text{CH}_2=\text{C}(\text{CH}_3)-\text{CH}_2$ D. B and C
2	A single benzene ring can have _____ ortho position maximally	A. One B. Two C. Three D. Four
3	Reaction of ethanes with $\text{KMnO}_4$ gives:	A. Ozonide B. Glyoxal C. Glycol D. Oxalic acid
4	The general formula of alkane is	A. $\text{C}_n\text{H}_{2n+2}$ B. $\text{C}_n\text{H}_{n+2}$ C. $\text{C}_n\text{H}_{2n}$ D. $\text{C}_n\text{H}_{2n-1}$
5	Alkanes are least reactive towards:	A. Acids and bases B. Reducing agents C. Oxidizing agents D. All of these
6	Ethylene combines with water in the presence of $\text{H}_2\text{SO}_4 + \text{HgSO}_4$ and forms	A. Ethyle chloride B. Ethyle alcohol C. Carboxylic acid D. None of these
7	During the preparation of alkynes the active metals that react with tetra halo-alkanes are	A. Zn B. Mg C. Both a and b D. None
8	Which of the following acid can be used as a catalyst in Friedal Craft's reactions	A. $\text{AlCl}_3$ B. $\text{HNO}_3$ C. $\text{BeCl}_2$ D. NaCl
9	Hydrocarbons are divided into aliphatic, alicyclic and aromatic which structure among the following show an alicyclic hydrocarbon	
10	The order of dehydration of alcohol	A. 10 > 20 > 30 B. 10 > 30 > 20 C. 20 > 30 > 10 D. 30 > 20 > 10
11	Marsh gas was the name given to	A. Methane B. Ethane C. Propane D. Butane
12	When n-hexane is heated in the presence of Pt at $500^\circ\text{C}$ , it cyclists to give	A. Benzene B. Cyclohexene C. Benzene D. Toluene
13	Ethylene decolorizes cold dilute solution of $\text{KMnO}_4$ . This test is known as	A. Colouration test B. Baeyer's test C. Silver mirror test D. Ring test
14	Alkyl halides when reduced with nascent hydrogen in the presence of Zn + HCl, are converted to	A. Alkynes B. Alkenes C. Alkanes D. Alcohol

A. Tetraethyl lead

15	Which of the following substances is used as an antiknock compound?	B. Lead tetrachloride C. Lead acetate D. Ethyle acetate
16	Introduction of a second methyl group in methylbenzene will give how many isomeric dimethylbenzenes	A. 2 B. 1 C. 3 D. 4
17	In $\text{CH}_4$ , all the H-C-H bond angles are	A. $120^\circ$ B. $107^\circ$ C. $109^\circ$ D. $109.5^\circ$
18	Which one of the following gases is used for artificial ripening of fruits	A. Ethane B. Ethyne C. Methane D. Propane
19	Which decolourizes the colour of $\text{Br}_2$	A. $\text{CH}_4$ B. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$ C. $\text{CH}_2=\text{CH}_2$ D. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_3$
20	The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with the rule	A. Hund's rule B. Markownikov's rule C. Pauli's exclusion principle D. Auf ban principle