

ECAT Chemistry Chapter 19 Aliphatic Hydrocarbons

| Sr | Questions | Answers Choice |
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| 1 | Which one does not decolorized KMnO_4 | A. Alkenes B. Alkynes C. Benzene D. All above |
| 2 | Formula of chloroform is: | A. CH_3Cl B. CCl_4 C. CH_2Cl_2 D. CHCl_3 |
| 3 | The order of reactivity of halogens in aliphatic substitution reactions is | A. $\text{Br}_2 > \text{Cl}_2 > \text{F}_2$ B. $\text{Cl}_2 > \text{Br}_2 > \text{F}_2$ C. $\text{Cl}_2 > \text{Br}_2 > \text{F}_2$ D. $\text{F}_2 > \text{Br}_2 > \text{Cl}_2$ |
| 4 | Hybridization in alkanes is: | A. sp B. sp^2 C. sp^3 D. dsp^2 |
| 5 | Synthetic rubber is made by polymerization of | A. Chloroform B. Acetylene C. Divinylacetylene D. Butene |
| 6 | Which of the following substances is used as an antiknock compound? | A. Tetraethyl lead B. Lead tetrachloride C. Lead acetate D. Ethyl acetate |
| 7 | The method involved for electrolysis of Na or K salts of carboxylic acids | A. Sabatier's reaction B. Kolbe's method C. Clemmensen D. Wolf kishner reduction |
| 8 | When an aqueous solution of potassium salt of monocarboxylic acid is subjected to electrolysis, corresponding alkane is formed. This reaction is known as | A. Cannizzaro reaction B. Sabatier-reaction C. Alkylation D. Kolbe's reaction |
| 9 | Kolb's method is not useful for the production of | A. Methane B. Ethane C. Propane D. Butane |
| 10 | Which of the following acid can be used as a catalyst in Friedel Craft's reactions | A. AlCl_3 B. HNO_3 C. BeCl_2 D. NaCl |
| 11 | "Each different compound should have a different name" was published by IUPAC system of nomenclature in | A. 1892 B. 1830 C. 1947 D. 1979 |
| 12 | Alkanes are least reactive towards: | A. Acids and bases B. Reducing agents C. Oxidizing agents D. All of these |
| 13 | The elimination of HX from adjacent carbon atoms is called | A. Halogenations B. Hydrohalogenation C. Dehydrohalogenation D. Hydration |
| 14 | Which of the following is an ortho-para directing group | |
| 15 | Benzene has a ----- structure | A. Pentagonal B. Hexagonal C. Heptagonal D. Tetragonal |
| 16 | Preparation of ethylbenzene by the reaction of bromobenzene, ethylbromide and sodium is called | A. Wurtz reaction B. Fitting reaction C. Wurtz fitting reaction |

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| | | D. None of these |
| 17 | Which decolourizes the colour of Br ₃ | A. CH ₄ B. CH ₃ -CH ₃ - C. CH ₂ = D. CH ₃ -CH ₃ |
| 18 | An alkynes having Carbon count of 20 is | A. gas B. liquid C. Solid D. None |
| 19 | Which reaction is too vigorous to control | A. Chlorination B. Bromination C. Iodination D. Fluorination |
| 20 | 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 |