

Gaining Apex Coaching Centre

(Where Toppers make..... Toppers)

Compiled by: Dapinderjeet Singh

TEST-IX (10+1 CHEMISTRY)

	<u>CHAPTER - Hydrocarbons</u>	
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- 1) Write the following reactions
 - i) Wurtz reaction ii) Friedel craft iii) Kolbe electrolysis iv) Fittig v) Decarboxylation
- 2) The increase in melting point is more in moving from alkane molecule having odd number of carbon atoms to the next higher member while it is less in case of even number of carbon atoms. Explain
- 3) How will you distinguish between cis and trans alkene
- 4) Predict the product of elimination reaction of 2-Bromobutane with proper explanation
- 5) How will you obtain trans-but-2-ene from but-2-yne
- 6) Terminal alkynes are acidic in nature and explain Birch Reduction
- 7) How will you detect the presence of double bond in a given compound
- 8) Name the alkene which forms ethanal and Propanal on Ozonolysis
- 9) Explain Markownikov's and Anti Markownikov's rule with the help of an example
- 10) What are the conditions for the compound to show Geometrical isomerism
- 11) Explain the mechanism of nitration of benzene, Sulphonation, halogenation, Friedel Craft Alkylation and Acylation
- 12) Explain the relative stability of different conformations of butane
- 13) Alkyl Group is ortho and para directing group. Explain
- 14) Why is benzene extra ordinary stable though it contains three double bonds
- 15) Benzene undergoes ESR not NSR. Explain
- 16) A hydrocarbon C_4H_8 neither decolourises bromine dissolved in CCl_4 nor reacts with HBr . When heated to 473K, with hydrogen in the presence of nickel catalyst a new hydrocarbon C_4H_{10} is formed. What is the original hydrocarbon?
- 17) Explain Huckle Rule
- 18) NO_2 is Meta directing group. Explain
- 19) Explain Saytzeff rule
- 20) Explain all the type of isomerism

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