## CLASS - XI CHEMISTRY ASSIGNMENT NO. 9 **TOPIC - Hydrocarbons** Q1. Define torsion strain and dihedral angle? Q2. Show with the help of sawhorse projection and Newman's projection eclipseal and staggered conformation of Ethane? Q3. Write structures for each of the following compounds? Why are the given names incorrect? Write correct **IUPAC Names?** (i) 2-ethyl / pentane (ii) 5 – ethyl-3-methyl heptane Q4. Write IUPAC names of the following compounds:-Calculate no. of figure and p bonds in the structures (i) to (iii) (i) $(CH_3)_2$ $CH - CH = CH - CH_2 - CH$ $CH_3 - CH - CH$ $C_2^{\dagger}H_5$ (ii) (iii) $CH_2 = C(CH_2CH_2CH_3)_2$ Q5. Which of the following are aromatic and why? (a) (b) (c) Pyridine Thiopene Pyrrate (d) (e) -Cyclopentadienyl ion Furan Q6. Identify the structures A, B, C, D in the given set of reactions;-(a) CH3 x Na / Ether A Cl2 (1 mol) B 1 No 2 Sadaline Cl<sub>2</sub>(1 mol) Pr/873K Cl<sub>2</sub>/AKl<sub>3</sub> CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub> Na/Diethyl / Ethe D (c) Isopropyl bremde alc koH Heat Peroxide CH<sub>3</sub>CHO Red $HC \equiv$ CH -2 H hot tube (e) Cl Cl 1 Zu alcohol CH CH Heat 1 Cl Cl (f) $H_3PO_4\square$ H<sub>2</sub>, Pt

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