CLASS - XI CHEMISTRY ASSIGNMENT NO. 10

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) $(CH_3)_2 CH CH = CH CH_2 CH_2$

(ii)

- (iii) $CH_2 = C(CH_2CH_2CH_3)_2$
- Q5. Which of the following are aromatic and why?

(a)



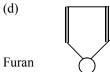
(b)



(c)



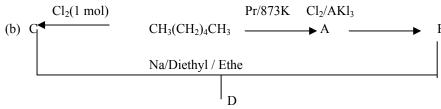
Pyrrate





-Cyclopentadienyl ion

- Q6. Identify the structures A, B, C, D in the given set of reactions;-
- - 1 No
 - 2 Sadaline



- (c) Isopropyl bremde
- alc koH → Heat
- A HBr Peroxide
- (d) C Red HC = CH A CH₃CHO hot tube $\begin{array}{c} A \\ \end{array}$ $\begin{array}{$
- Zu alcohol Heat
- A Iron tube 675 K



 $\mathrm{H_{3}PO_{4}}\square$

H₂, Pt

