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## J.E.E./A.I.P.M.T.Foundation - XI Chemistry Worksheet

Time: 30 min Ch#13: Hydrocarbons-01 Full Marks: 20

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- 1. All questions are compulsory.
- 2. Please give the explanation for the answer where applicable.

Q1 - Write the general formula for the following (i) Cycloalkanes	
(ii) Cycloalkenes	(1 Mark)
Q2 - State Markovnikov's rule.	(1 Mark)
Q3 - How a sigma bond is different from pi bond?	(1 Mark)
Q4 - Define electrophile and nucleophile with examples.	(2 Marks)
Q5 - Write the IUPAC name of the following compounds (a) $(CH_3)_3C-CH_2C(CH_3)_3$ (b) Tetra-tert-butylmethane	(0.11 )
	(2 Marks)
Q6 - Explain Huckel Rule? Draw the structure of Pyridine and Furan. Are these aromatic?	(2 Marks)
Q7 - Represent the following by chemical reactions: (i) n-heptane is heated with vanadium pentaoxide at 773 K temperture and 10-20 atmosp (ii) Calcium carbide reacts with water. (iii) Propene reacts with HBr.	heric pressure.
(iii) Froperie reacts with ribi.	(3 Marks)
Q8 - How will you prepare cis and trans alkenes separately? Give chemical reactions for bo	oth. (3 Marks)
Q9 - Give the structures of the following compounds?  (a) Benzene (b) Anthracene (c) Napthalene (d) Phenanthrene (e) Toluene	

(5 Marks)