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

Time: 30 min Ch#13: Hydrocarbons-02 Full Marks: 20

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1. All	questions	are com	pulsory.
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2. Please give the explanation for the answer where applicable.

2. I louse give the explanation for the unswer where applicable.	
Q1 - What do you mean by structural isomerism?	(1 Mark)
Q2 - Define hydrocarbons.	(1 Mark)
Q3 - Calculate the number σ a π bonds i \equiv 1 C-CI \equiv C N.	
	(1 Mark)
Q4 - Name the acid whose sodium salt is required for the preparation of propane? Write chemic equation for the reaction.	cal (2 Marks)
Q5 - Draw the Newman's projection of ethane.	(2 Marks)
Q6 - What do you understand by torsional angle? Which of the conformations of ethane has the maximum and the minimum torsional strain?	e (2 Marks)
Q7 - Write the conditions which are necessary for a compound to show geometrical isomerism. butene exhibit geometrical isomerism, if yes draw its geometrical isomers?	Will
	(3 Marks)
Q8 - (i)Convert ethene into benzene. (ii)Why HF forms hydrogen bonding with ethyne even though it is non-polar in nature?	(5 Marks)
Q9 - (a) How will you convert ethanoic acid into methane? (b) Write the name of the products and the chemical reactions involved for the following reaction; Hex-1-ene reacts with HBr - in the absence of peroxide. (ii) Hex-1-ene reacts with HBr - in the presence of peroxide.	on:

(3 Marks)