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

Time: 30 min Ch#13: Hydrocarbons-03 Full Marks: 20

## **Instructions:**

- 1. All questions are compulsory.
- 2. Please give the explanation for the answer where applicable.
- Q1 Define conformation.

(1 Mark)

Q2 - Define cracking with an example.

(1 Mark)

Q3 - Write the IUPAC name of the following compound

(1 Mark)

Q4 - Draw all the possible structural isomers of C6H14. Also write their IUPAC names.

(2 Marks)

- Q5 Convert
- (i) Phenol into benzene.
- (ii)Benzene into ethyl benzene.

(2 Marks)

Q6 - Which one is more polar, cis-but-2-ene or trans-but-2-ene and why?

(2 Marks)

- Q7 Convert:
- (a) Ethylene to ethane.
- (b) Benzene to acetophenone.

(3 Marks)

Q8 - (i) With the help of resonating structures explain that methyl group is o,p-directing?

(ii) Convert acetic acid to ethylene.

(3 Marks)

Q9 - Complete the following reactions:

(5 Marks)