



KEC

K Education Centre



AS Chemistry

C6 : Organic Chemistry Assignment-2

Assignment Questions

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Year 2023

Organic Chemistry Assignment -2

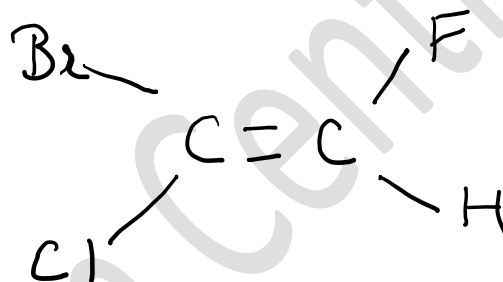
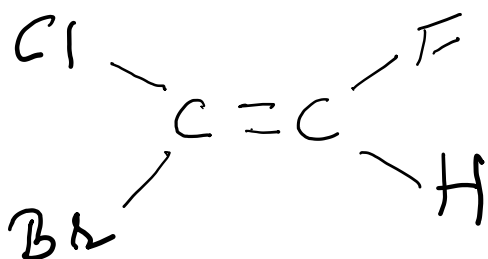
Q1 : What are geometric isomers? Why cannot Alkanes have this isomerism?

Q2: Draw the cis and trans isomers of

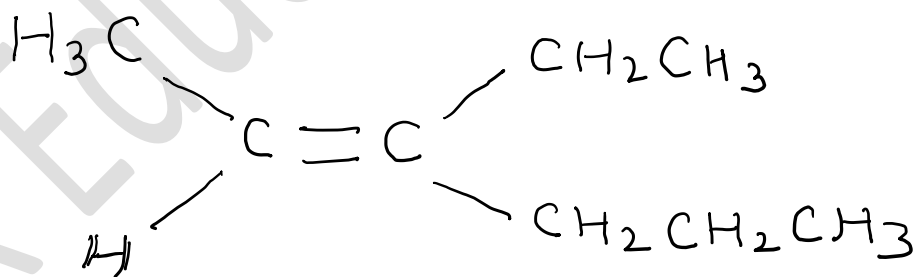
i) but -2 - ene .

ii) 1,2 dichloro ethene

Q3: Name the following alkene.



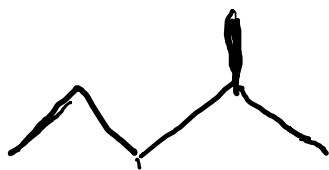
Q4: What is the name of these alkene?



a) E-4-ethylhex-4-ene b) E-3 ethyl hex-2-ene c) Z-3-ethylhex-2-ene

Q5: Explain cracking. What are the benefits of cracking. Write the equation to show the cracking of hexane , C₆H₁₄ to produce Ethene and one other hydrocarbon.

Q6: What is reforming? The hydrocarbon below is the product of reforming of unbranched hydrocarbon.



Name the above hydrocarbon and with displayed formula show the hydrocarbon reforming is done from.

Q7: What is radical?

Q8: Methane and Bromine react together to form bromomethane and hydrogen bromide.



Outline the mechanism with all the steps for the reaction between methane and bromine.

Q9: a) Write down all the products that will be formed when methane and chlorine and react together to produce chloroalkanes.

b) Write down two equations to show the propagation steps in which CH_3Cl is converted into CH_2Cl_2 .

Q10 Explain why But-1 -ene is not able to show geometric isomerism.