



NCERT Class X Science Class: Chapter -4. Carbon and its Compounds – Part-14

Question 54:

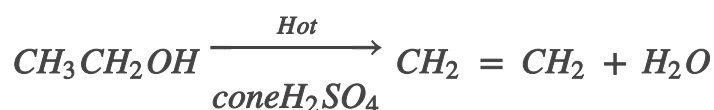
How would you bring about the following conversions? Name the process and write the reaction involved.

1. Ethanol to ethene.
2. Propanol to propanoic acid.

Write the reactions.

Answer:

(a) By the dehydration of ethanol in the presence of concentrated H_2SO_4 .



(b) By the oxidation of propanol using oxidizing agent such as alkaline $KMnO_4$.



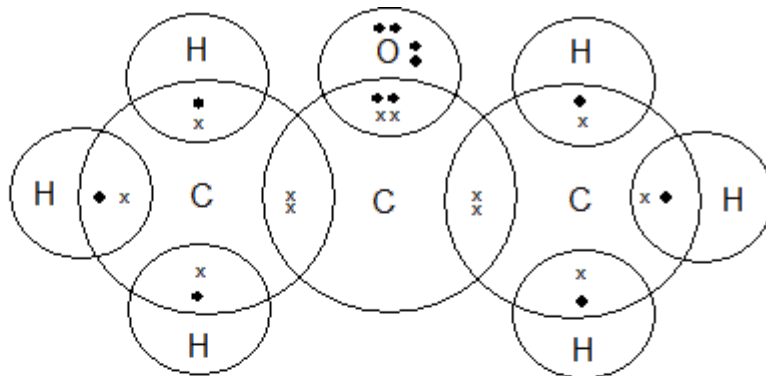
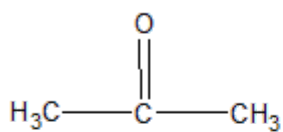
Question 55:

Draw the possible isomers of the compound with molecular formula C_3H_6O and also give their electron dot structures.

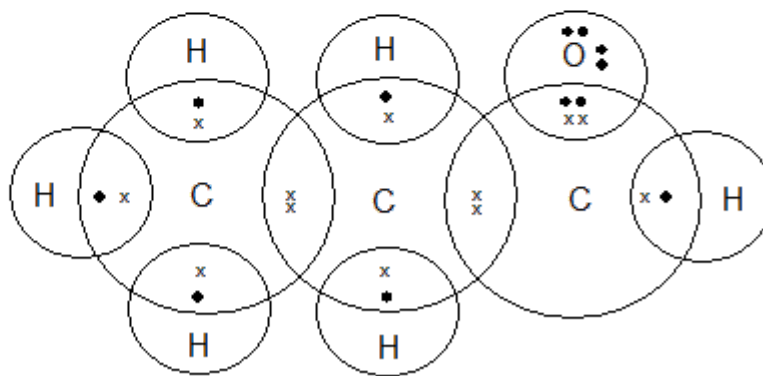
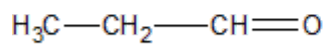
Answer:

Isomer with molecular formula C_3H_6O :

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Electron dot structure of propanone



Electron dot structure of propanone

Image Electron Dot Structure of Propanone

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