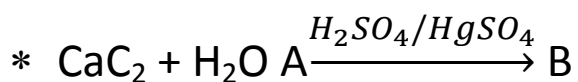


Episode No – 46

Faculty: JAGADEESHAIAH.V.S

Hydrocarbon



- a) C_2H_2 & CH_3CHO
- b) CH_4 & HCOOH
- c) C_2H_4 & CH_3CHOOH
- d) C_2H_2 & CH_3COOH

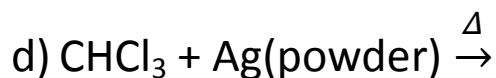
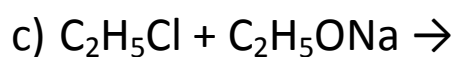
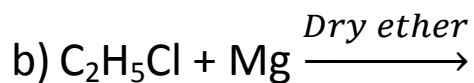
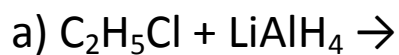
Ans : a)

* Liquid hydrocarbons can be converted to a mixture of gaseous hydrocarbons by :

- a) Hydrolysis
- b) Oxidation
- c) Cracking
- d) Distillation under reduced pressure

Ans : c)

* Wurtz reaction of methyl iodide yields an organic compound "X". Which of the following reaction also yields "X" ?



Ans : a)

* Which of the following compound will exhibit geometrical isomerism?

a) 2-phenyl-1-butene

b) 1,1-diphenyl-1-propene

c) 1-phenyl-2-butene

d) 3-phenyl-1-butene

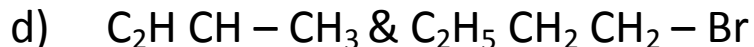
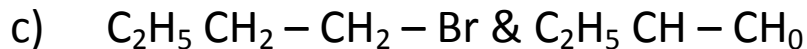
Ans : c)

* $CH_3CH_2CH=CH_2 + HBr \xrightarrow{ROOR} [x] + [y]$
Major minor

[x] & [y] respectively are :

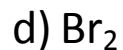
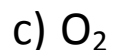
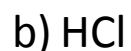
a) $Br-CH_2-CH_2-CH=CH_2$ & $C_2H_5-CH-CH_3$

b) $C_2H_5-CH_2-CH_2-Br$ & $Br-CH_2-CH_2-CH=CH_2$



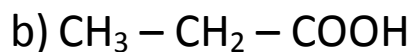
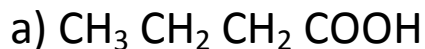
Ans : c)

* Which of the following reagents will be able to distinguish between 1 - butyne and 2 - butyne ?



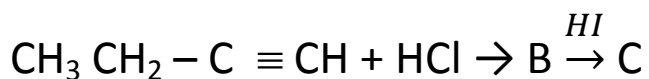
Ans : a)

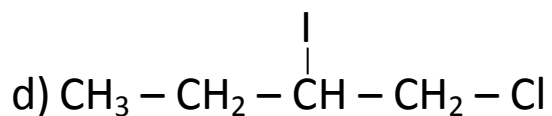
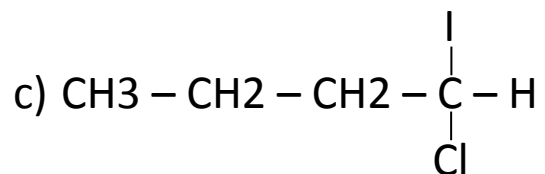
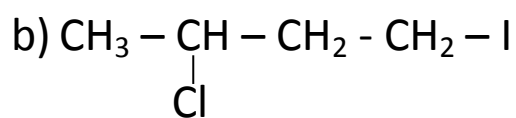
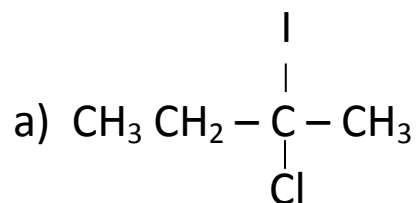
* 1- butyne reacts with hot alkaline KMnO_4 to produce



Ans : c)

* Predict the product "C" obtained in the following reaction of Butyne - 1.





Ans : a)

* Which of the following compounds will not undergo Friedel-Craft's reaction easily ?

a) Nitrobenzene

b) Toluene

c) Cumene

d) Xylene

Ans : a)

* Nitrobenzene can be prepared from benzene by using a mixture of con. HNO_3 and Cons. H_2SO_4 . In the nitrating mixture, Nitric acid acts as a :

- a) Base
- b) Acid
- c) Reducing agent
- d) Catalyst

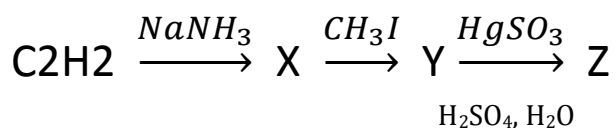
Ans : a)

* Chlorobenzene on treatment with sodium in dry ether gives diphenyl. The name of the reaction is :

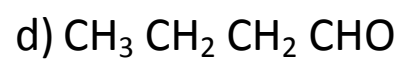
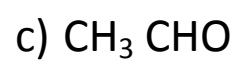
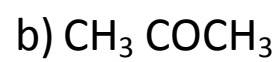
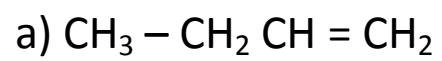
- a) Klurtz – fitting reaction
- b) Fitting reaction
- c) sandmeyer's reaction
- d) Gatterman reaction

Ans : b)

* In the Series,



The Compound Z is

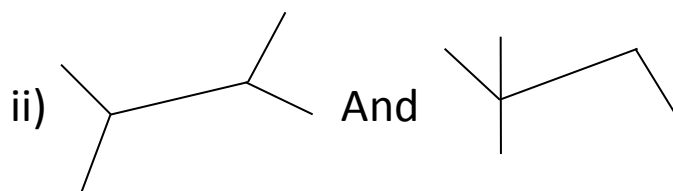


Ans : b)

* The product of the following reaction

* When excess of C_6H_6 reacts with CH_2Cl_2 in the presence of an $AlCl_3$, the following compound is obtained

* Isomers of hexane, based on their branching, can be divided into three distinct classes as shown in figure.



iii)