

Aim :-

To construct different molecular models with the help of model set.

Reference :-Requirement :- Model Set :-Theory :-

Colour code and valency (holes) for commonly used elements.

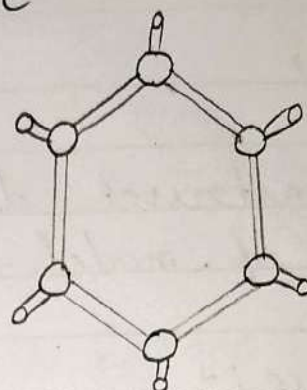
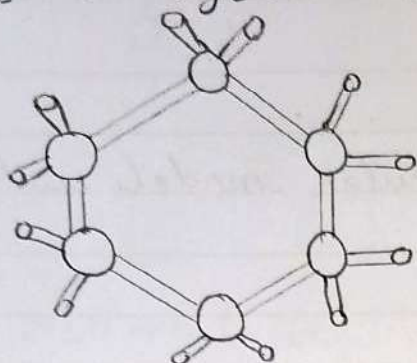
Atom Name	Colour of ball	No. of holes (valency)
Hydrogen	White	1
Oxygen	Red	2
Nitrogen	Blue	3
Carbon	Black	4
Sulfur	Yellow	2
Chlorine	Green	1

Alkane is the category name for a set of compound which contain carbon and hydrogen and only single bonds. An alkane has the general formula of $C_n H_{2n+2}$.

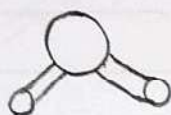
Teacher's Signature _____

Molecules with Functional Group

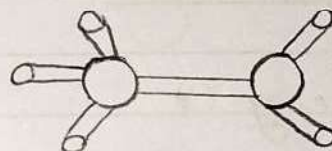
(1) Construct cyclohexone and benzene



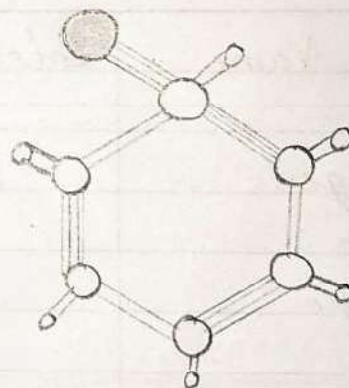
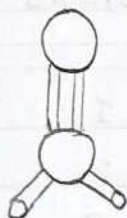
(2) Construct a water molecule



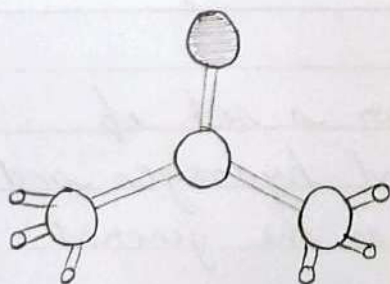
(3) Construct ammonia and methylamine



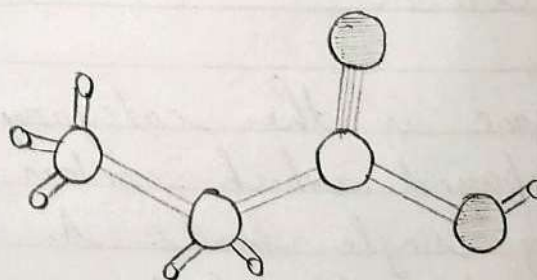
(4) Construct Formaldehyde and benzaldehyde



(5) Construct Acetone



(6) Construct Propanoic acid



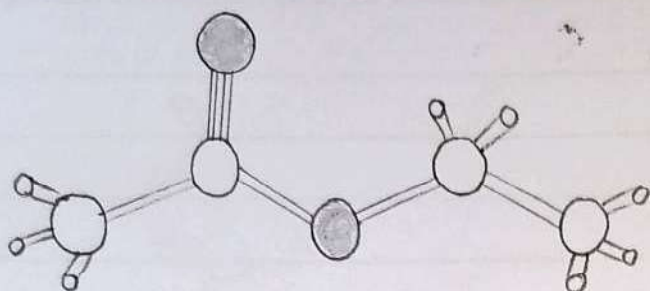
Expt. No. 2

Date _____

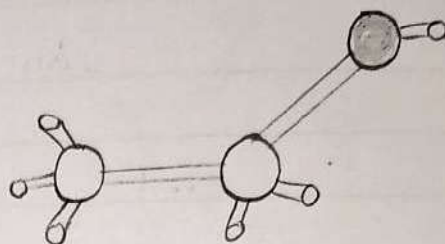
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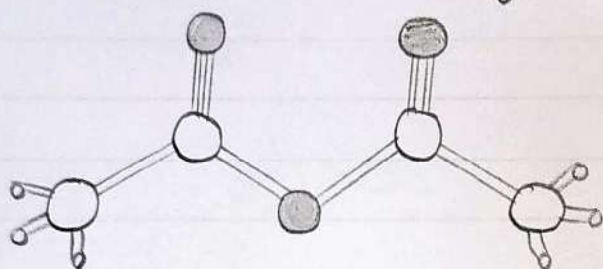
(7) Construct Ethyl acetate



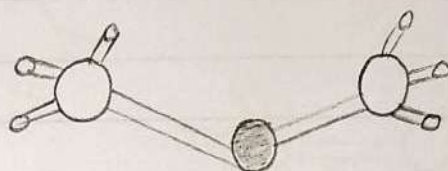
(8) Construct Ethanol



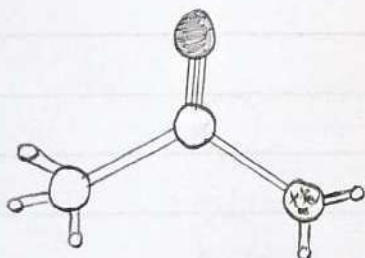
(9) Construct acetic anhydride



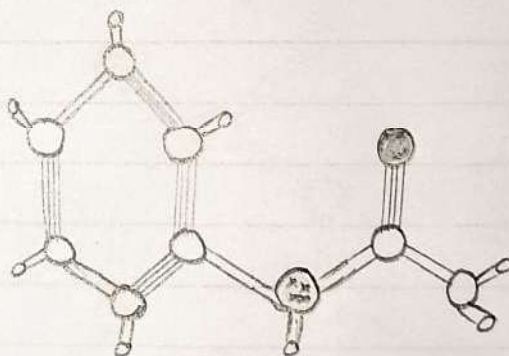
(10) Construct diethyl ether



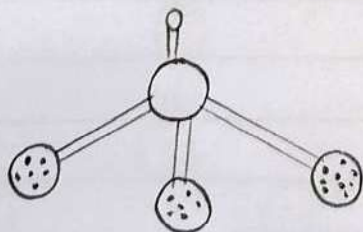
(11) Construct acetamide



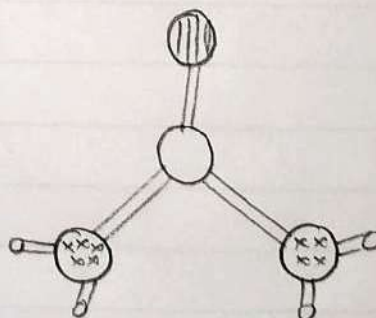
(12) Construct acetanilide





(13) Construct chloroform





(14) Construct thiourea





 \Rightarrow Double bond & $= \Rightarrow$ Single bond


 \Rightarrow Carbon

 \Rightarrow Oxygen

 \Rightarrow Nitrogen

 \Rightarrow Chlorine

 \Rightarrow Sulphur

 \Rightarrow Hydrogen

Result \Rightarrow

Construction of different molecular models with the help of model set was successfully performed.