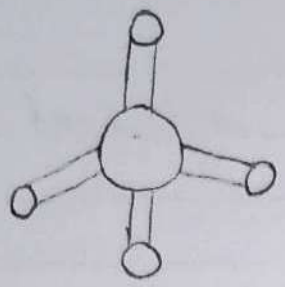
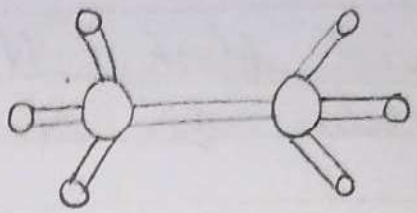
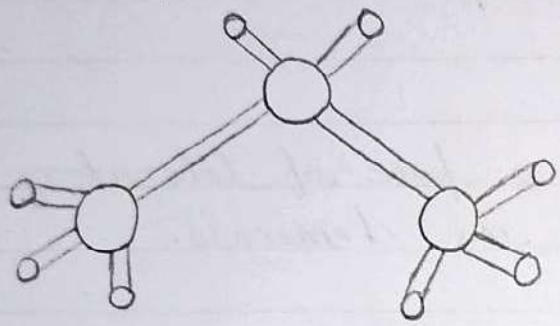


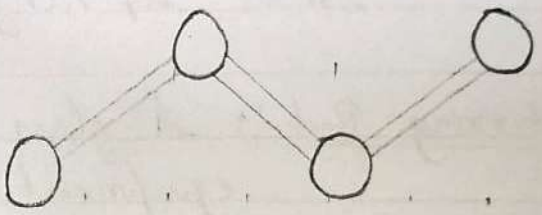
(a) Methane (CH_4)



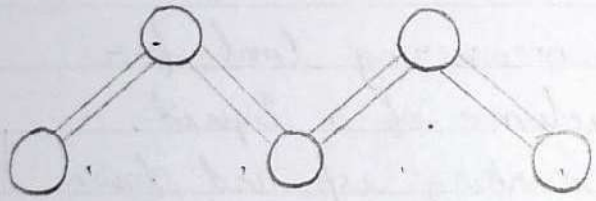
(b) Ethane (C_2H_6)



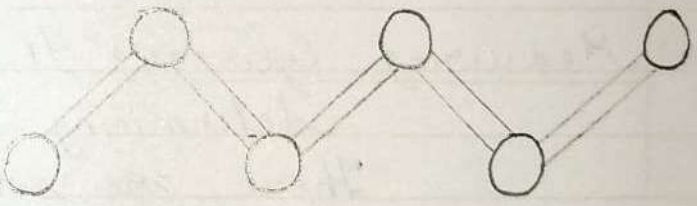
(c) Propane (C_3H_8)



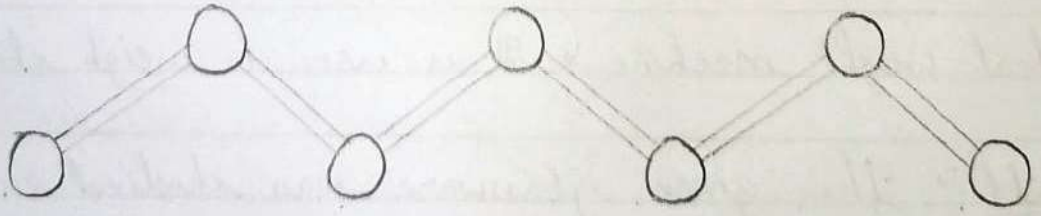
(d) Butane (C_4H_{10})



(e) Pentane (C_5H_{12})



(f) Hexane (C_6H_{14})



(g) Heptane (C_7H_{16})

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Aim :-

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

Reference :-

Requirement :- Model set :-

Theory :-

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

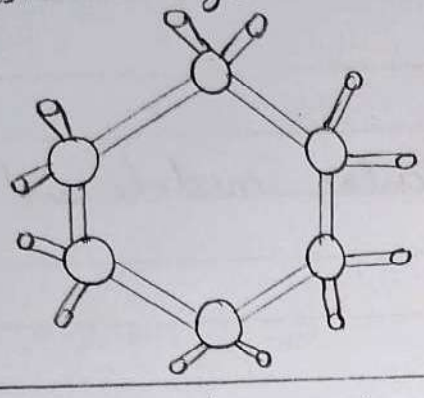
Atom Name	Colour of ball	No. of holes (valency)
Hydrogen	White	1
Oxygen	Red	2
Nitrogen	Blue	3
Carbon	Black	4
Sulfur	Yellow	2
Chlorine	Grece	1

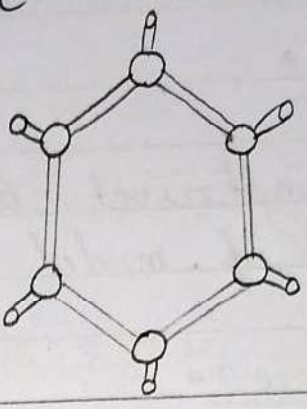
Alkane is the category name for a set of compound which contain carbon and hydrogen and only single bonds. An alkane has the general formula of C_nH_{2n+2}.

Teacher's Signature

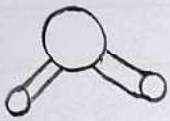
Molecules with Functional Group

(1). Construct cyclohexone and benzene

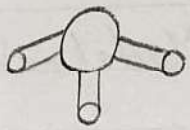


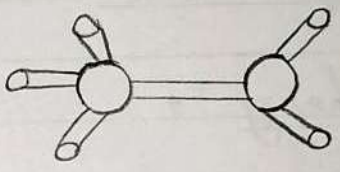


(2) Construct a water molecule

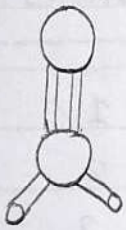


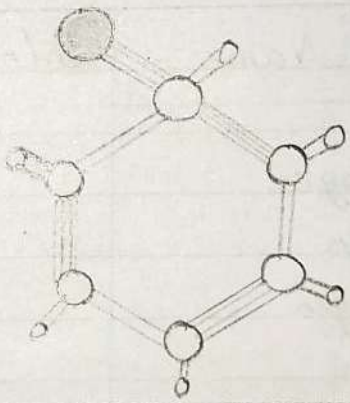
(3) Construct amonnia and methylamine



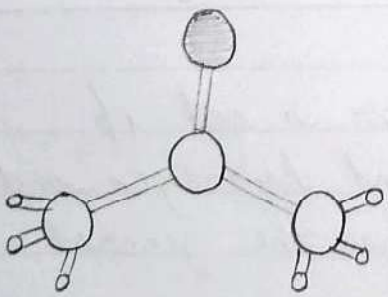


(4) Construct Formaldehyde and benzaldehyde

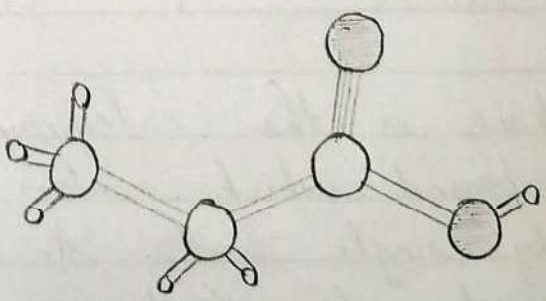




(5) Construct Acetone



(6) Construct Propanoic acid



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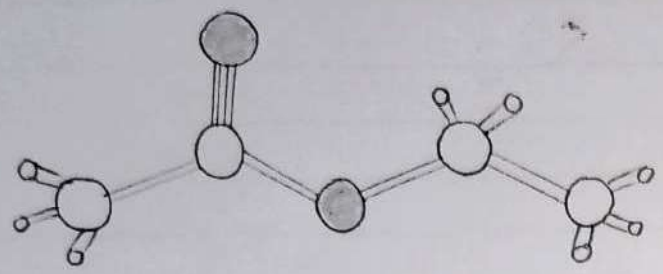
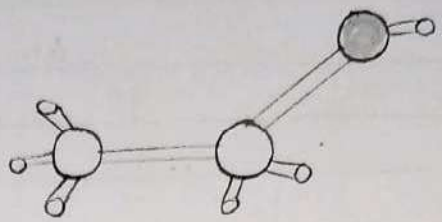
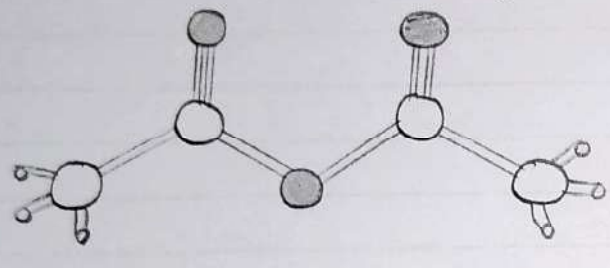
(7) Construct Ethyl acetate



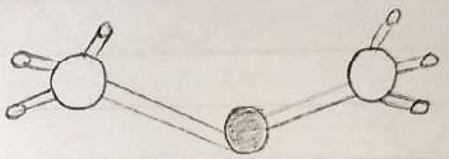
(8) Construct Ethanol



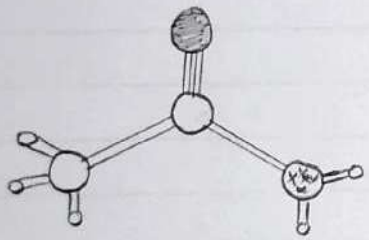
(9) Construct acetic anhydride



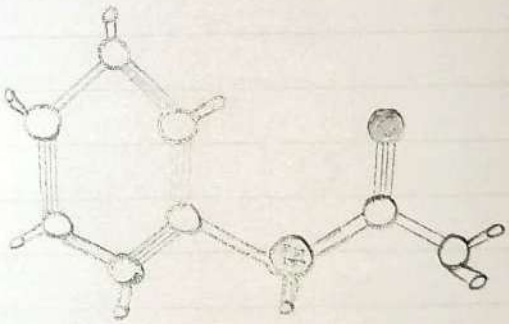
(10) Construct diethyl ether



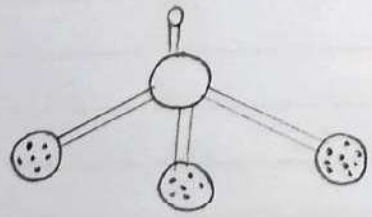
(11.) Construct acetamide



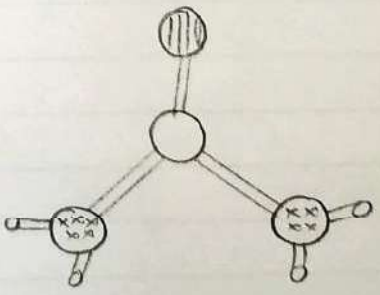
(12.) Construct acetanilide



(13) Construct chloroform



(14) Construct thiourea



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≡ ⇒ Double bond & = ⇒ Single bond

 ⇒ Carbon

 ⇒ Oxygen

 ⇒ Nitrogen

 ⇒ Chlorine

 ⇒ Sulphur

 → Hydrogen

Result :→

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

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