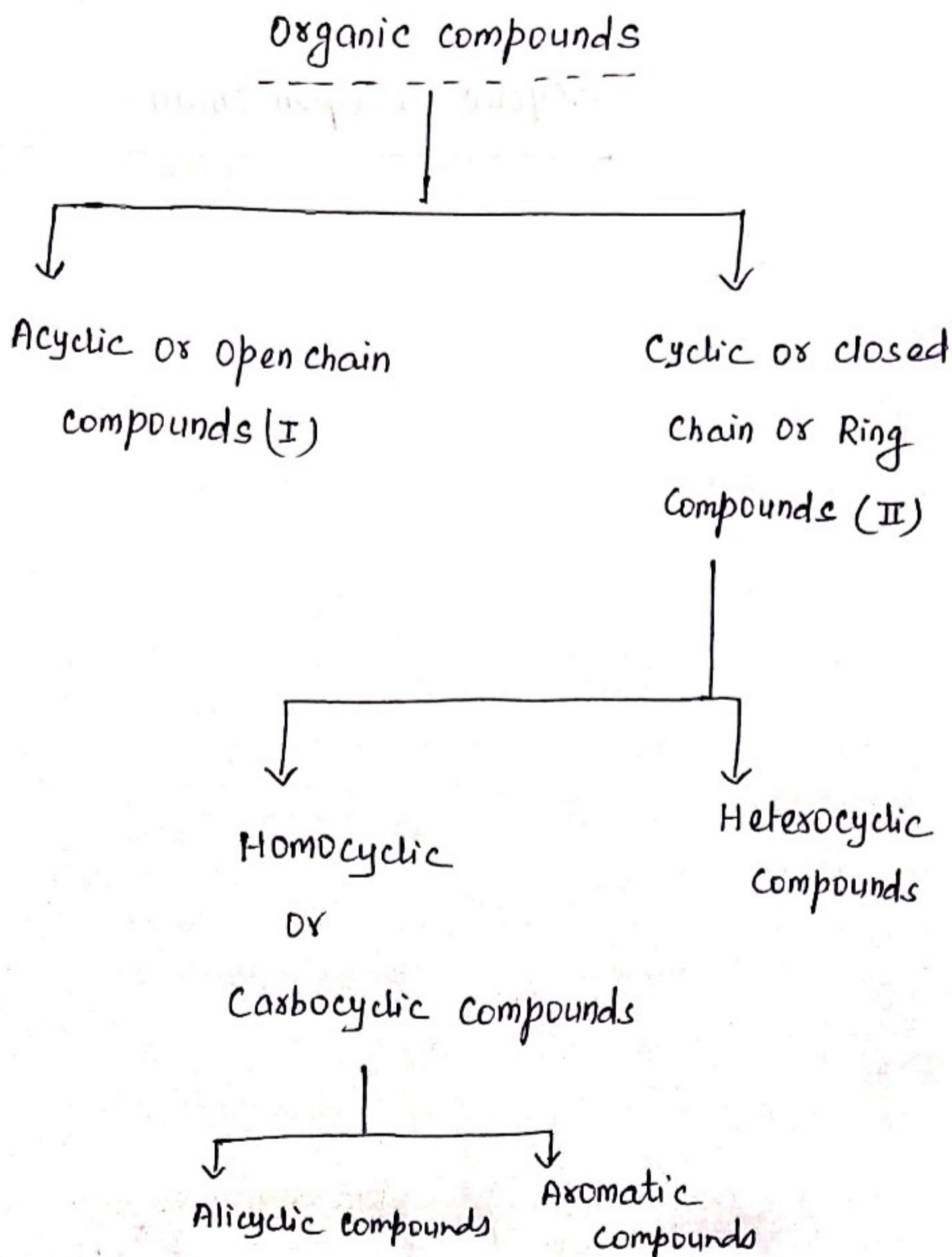


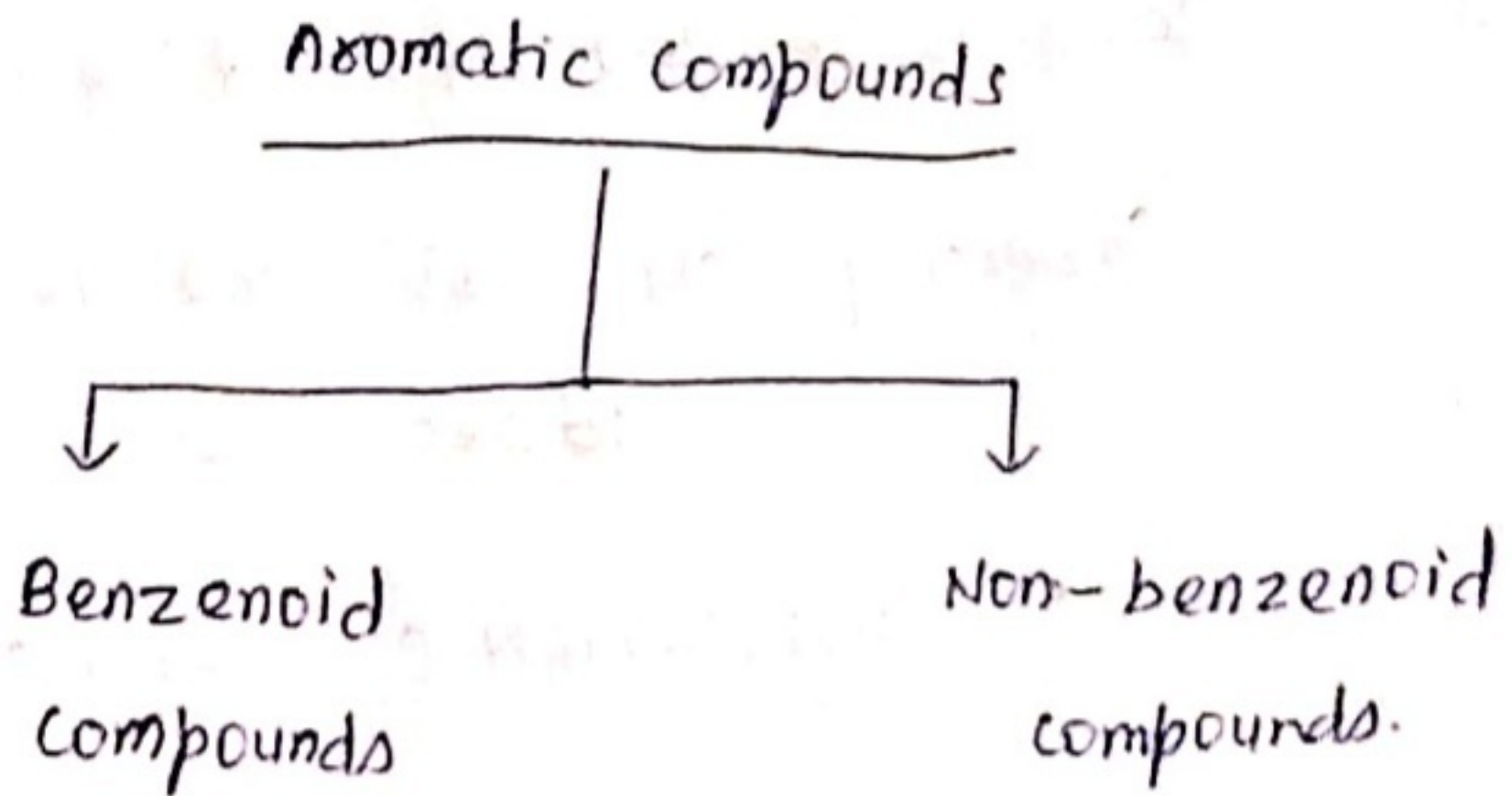
Some Basic Principles & Techniques ^{1.}

Chemistry , Class-XI ,Unit-12

Lecture-6 , Date 16/12/2020

CLASSIFICATION OF ORGANIC COMPOUNDS

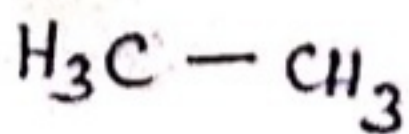




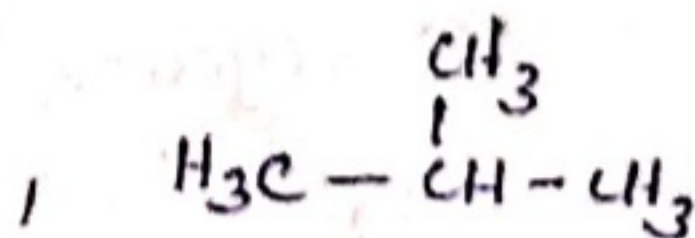
Acyclic or Open Chain Compounds

- * Organic compound which is not cyclic i.e.; which is in open chain is called Acyclic or Open chain compounds.
- * These compounds are also called as aliphatic compounds and consist of straight or branched chain compounds.

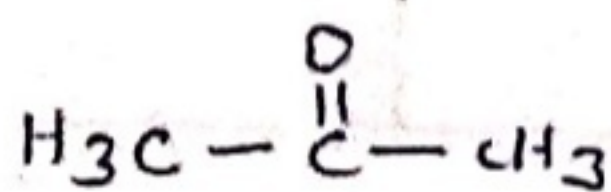
For example :



Ethane



Iso butane



Acetone

Cyclic Compounds

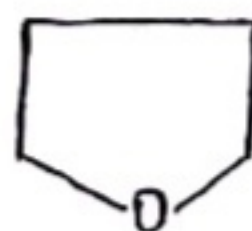
3.

* Organic compounds which is in cyclic form i.e.; in the form of ring.

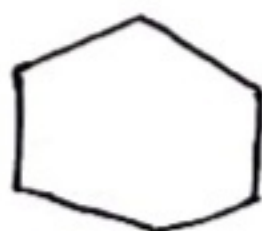
example;



Cyclopropane



Tetrahydrofuran

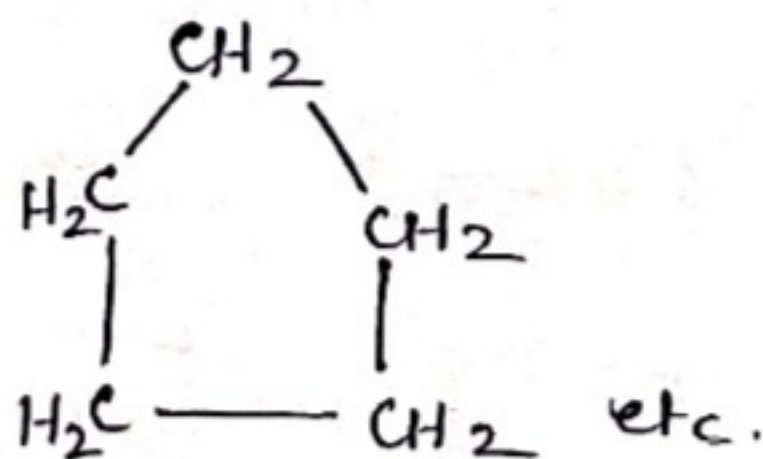
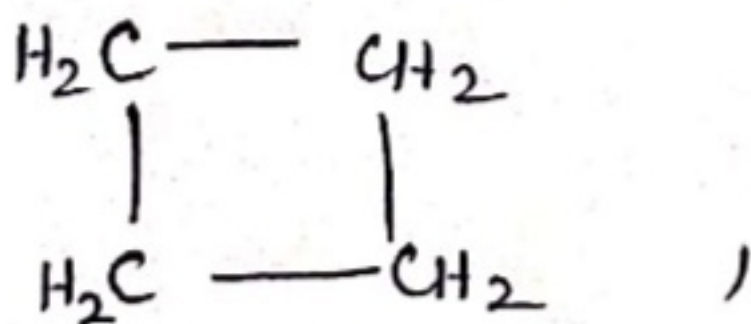


Cyclohexane etc.

Homocyclic or Carbocyclic Compounds

* cyclic compound contain carbon atoms joined in the form of a ring.

e.g.



Heterocyclic

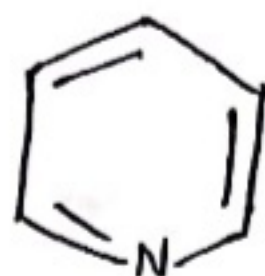
4.

When other atoms like (O, N, S) are also present in the ring then cyclic organic compounds also called Heterocyclic.

eg;



Furan



Pyridine



Tetrahydrofuran
etc.

Aromatic Compounds

In next lecture

Dr. Rinky
Dept. of Chemistry
J.N. College, Mdb.