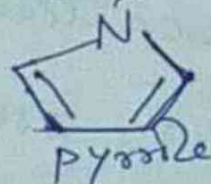


Subject - Chemistry SEM-V MTC-9
BY DR. MANDIKR

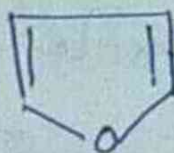
Heterocyclic compounds

Any type of cyclic compounds contains at least one non-carbon atom known as heterocyclic compounds.

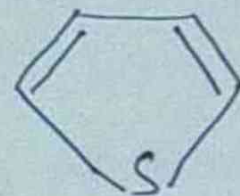
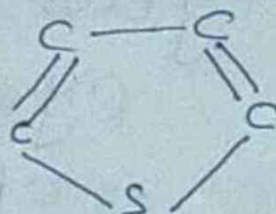
eg. Pyrrrole -



Furran -



Thioferrone -



Pyrrrole

It is a heterocyclic, aromatic, organic compound, a five-membered ring with the formula C_4H_4NH .

It is a colorless volatile liquid that darkens readily upon exposure to air. It's melting point is $-23^\circ C$ and boiling point is 128 to $131^\circ C$.

g/l's vapor pressure 7000 Hg at 23°C

~~Pyrolysis~~ to
Pyroole has aromatic character
because the lone pairs of electrons
on the nitrogen atom partially
delocalized into ring, creating
 $4n+2$ aromatic system
in term of its aromaticity

Pyroole's modest relative to benzene
but comparable to related hetero
cycles thiophene and furan.

Pyroole is a constituent of
tobacco smoke and may
contribute to its toxic effect.