

S.T.D. G.D COLLEGE, GAUTAMNAGAR, SIHAHPUR

Sub: Chemistry

SEM - I (MIC - I)

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Coordination Bond:-

A coordinative bond, also known as a dative covalent bond, is a type of covalent bond where both shared electrons come from a single atom. Donor atom: This atom provides a pair of non-bonding electrons i.e. a lone pair.

Acceptor atom: - This atom lacks a pair of electrons and has an empty orbital to receive them.

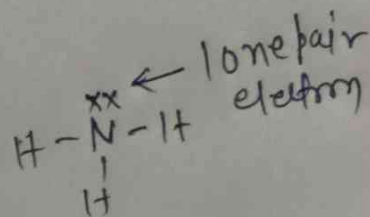
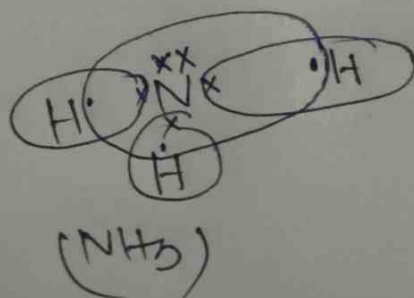
Repres. the types of bond denoted by an arrow ($\rightarrow$)

eg. Ammonium ion (NH_4^+)

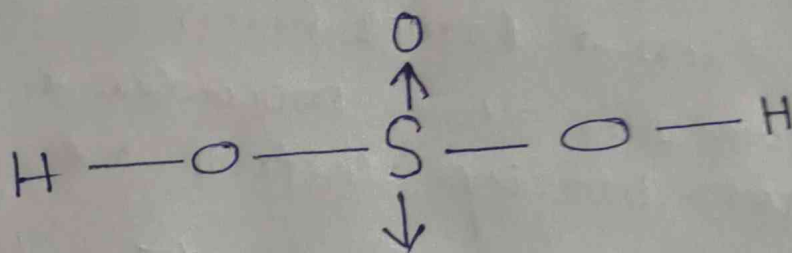
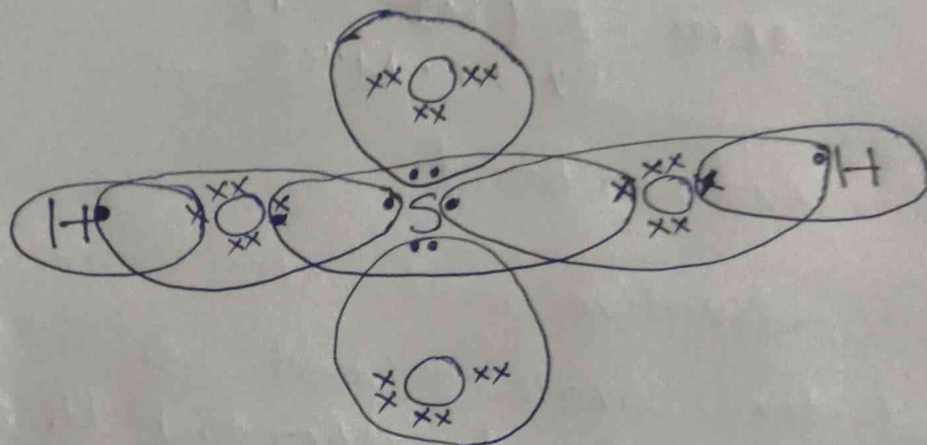
Ammonia (NH_3)

Hydronium ion (H_3O^+)

Carbon monoxide.



Formation of H₂SO₄



In this case Sulphur
donate lone pair to both
oxygen and formed
dative bond.