





26/5/20

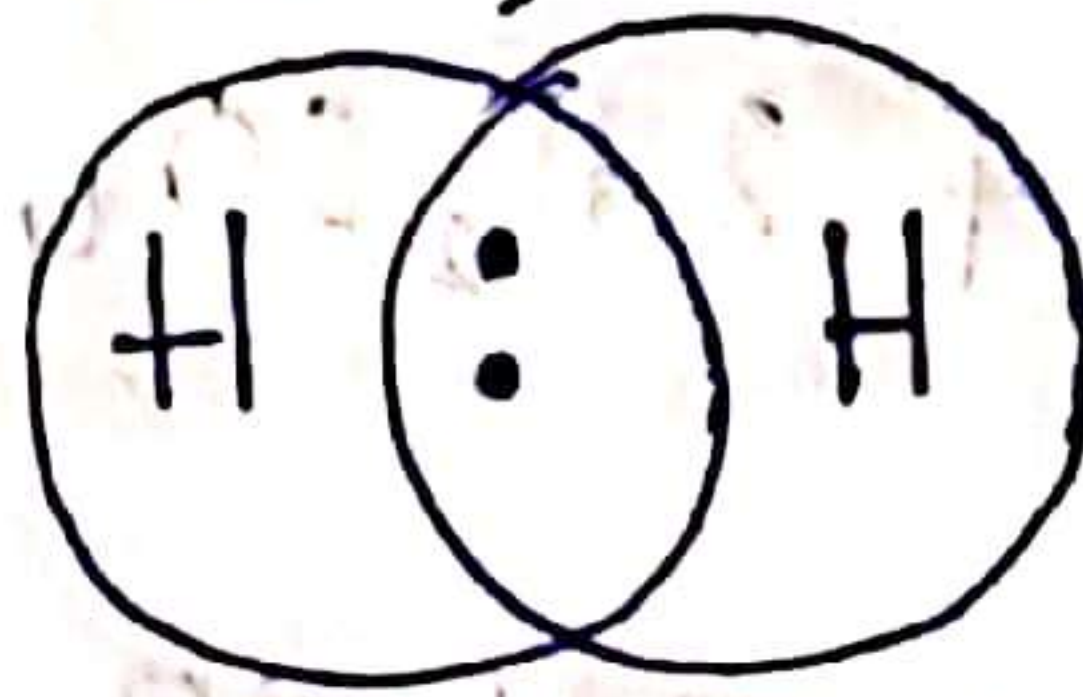
CLASS - 9

Covalent Bonding

The bond that is formed by mutual sharing of one or more pair of electrons is called a covalent bond.

Eg :- 1) Hydrogen gas ( $H_2$ )

$H = 1$

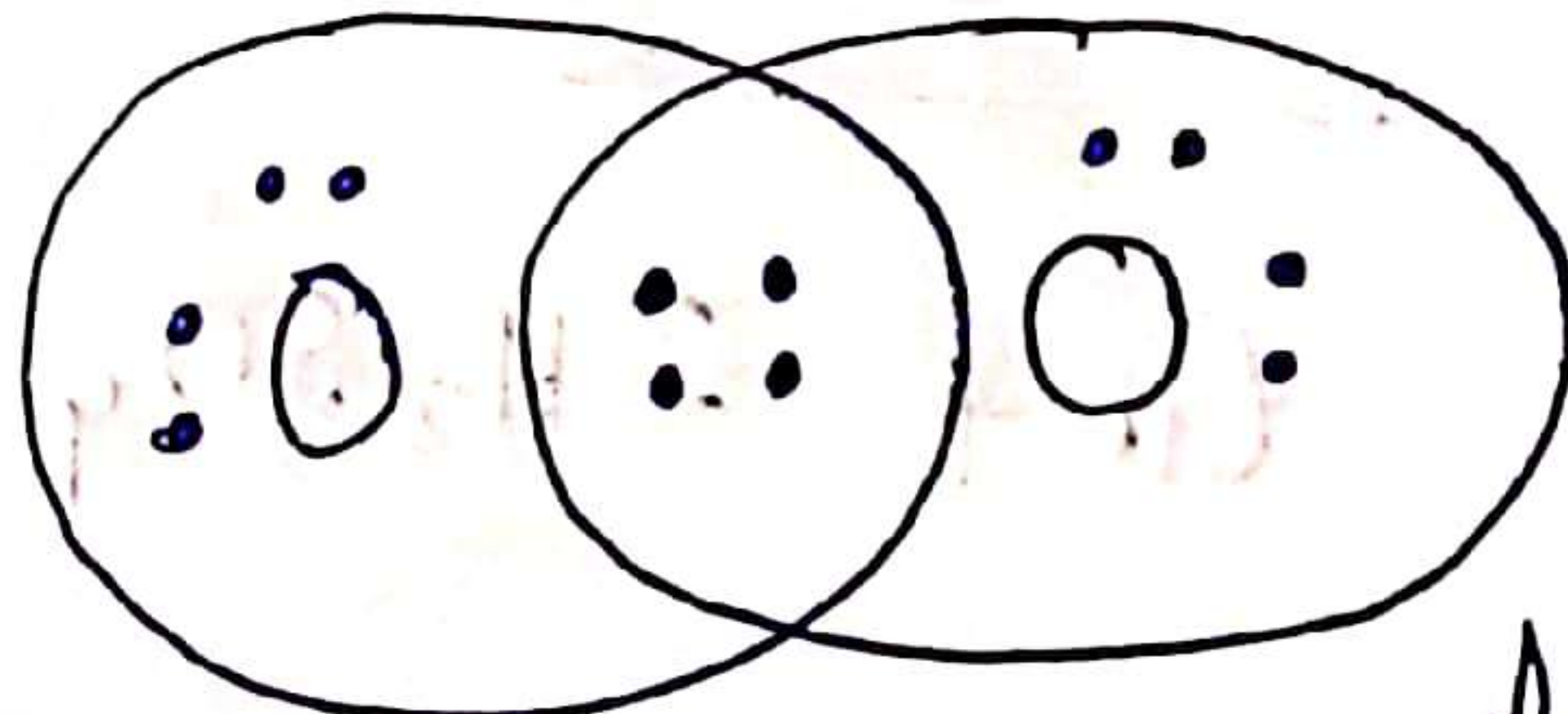


$H - H$

single covalent bond

2) Oxygen gas ( $O_2$ )

$O = 2, 6$

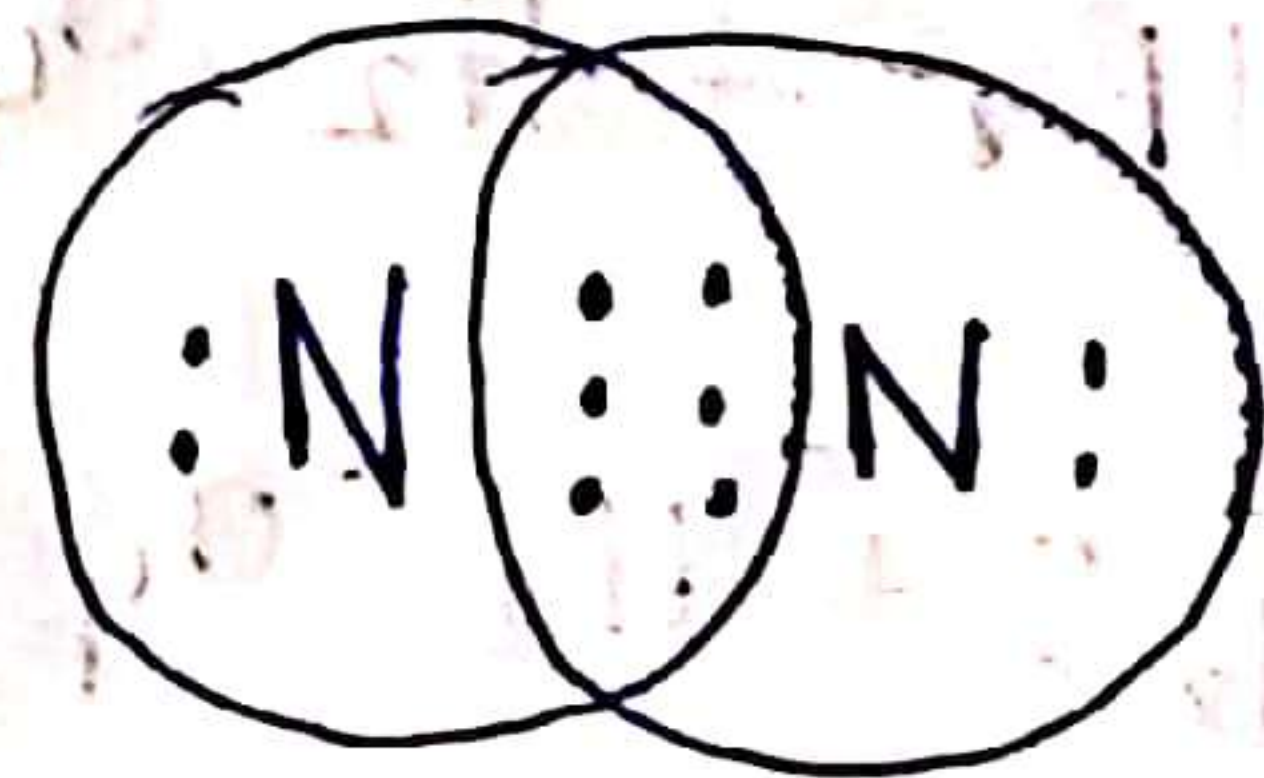


$O = O$

double covalent bond.

3) Nitrogen gas ( $N_2$ )

$N = 2, 5$



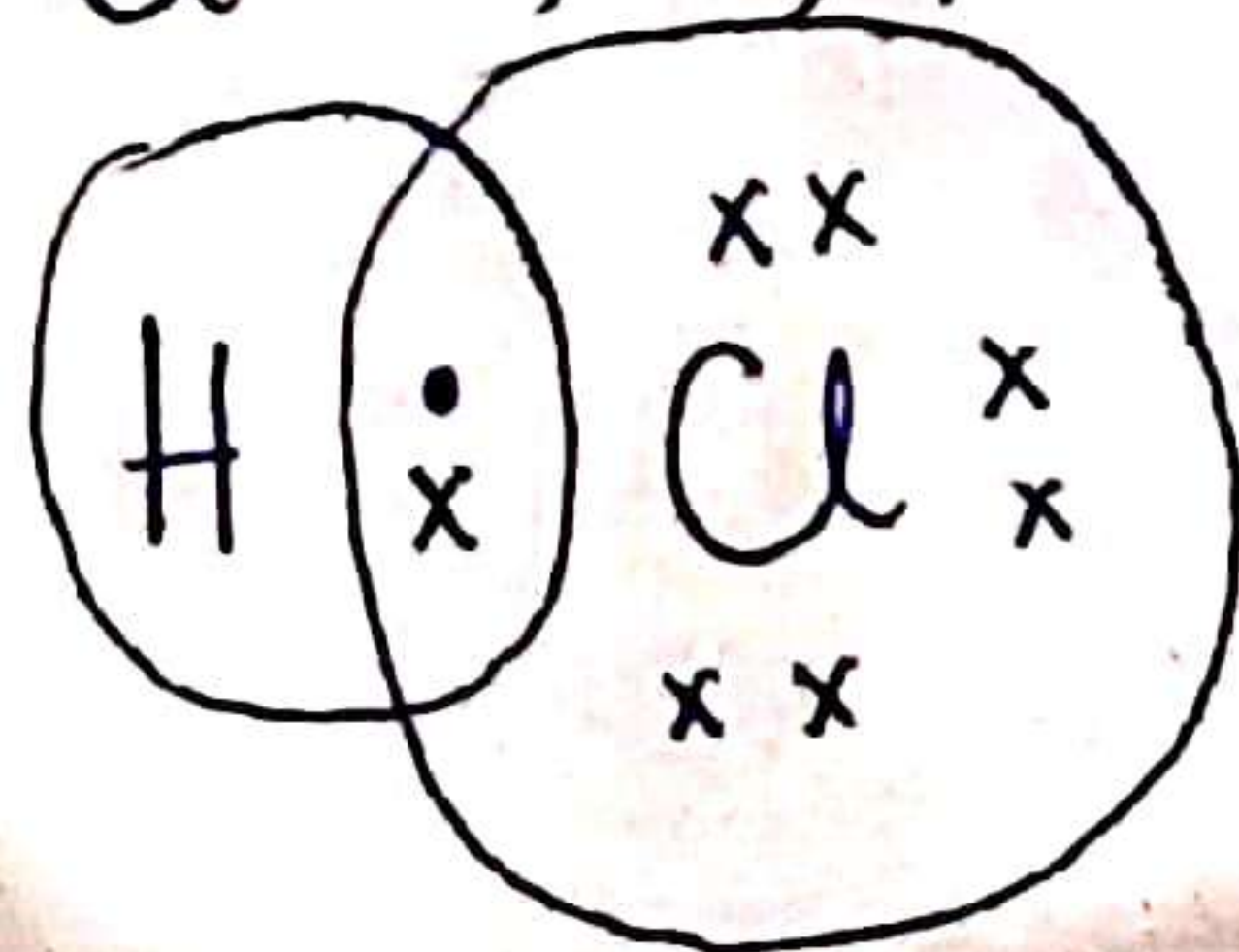
$N \equiv N$

triple covalent bond.

4) Hydrogen Chloride ( $HCl$ )

$H = 1$

$Cl = 2, 8, 7$



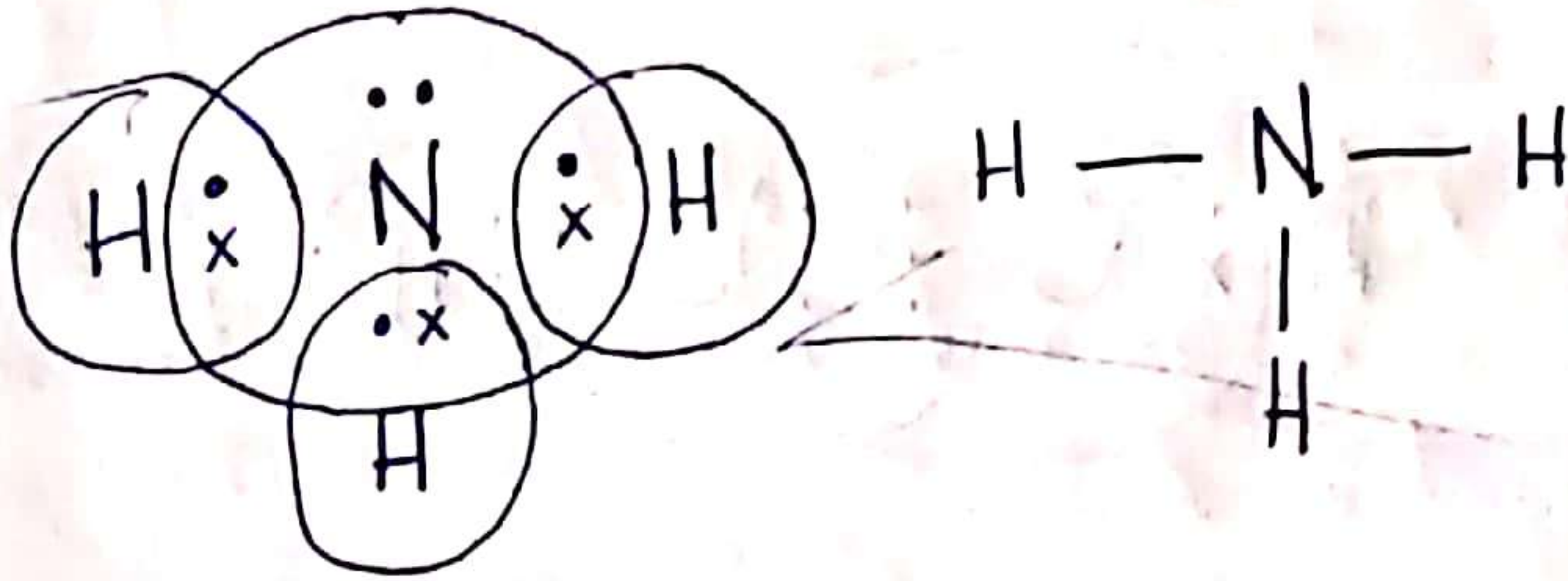
$H - Cl$



5) Ammonia (NH<sub>3</sub>)

$$N = 2, 5$$

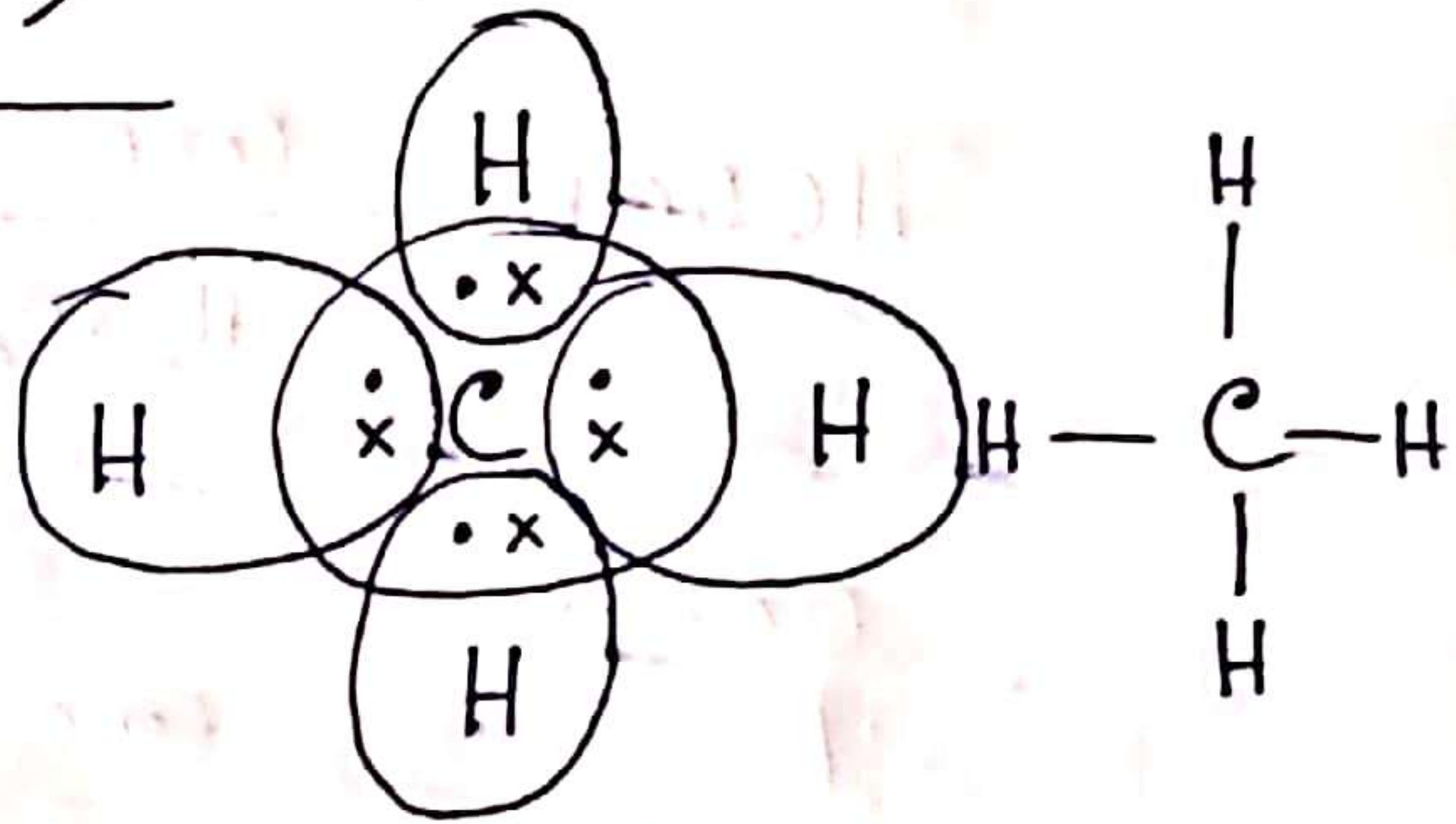
$$H = 1$$



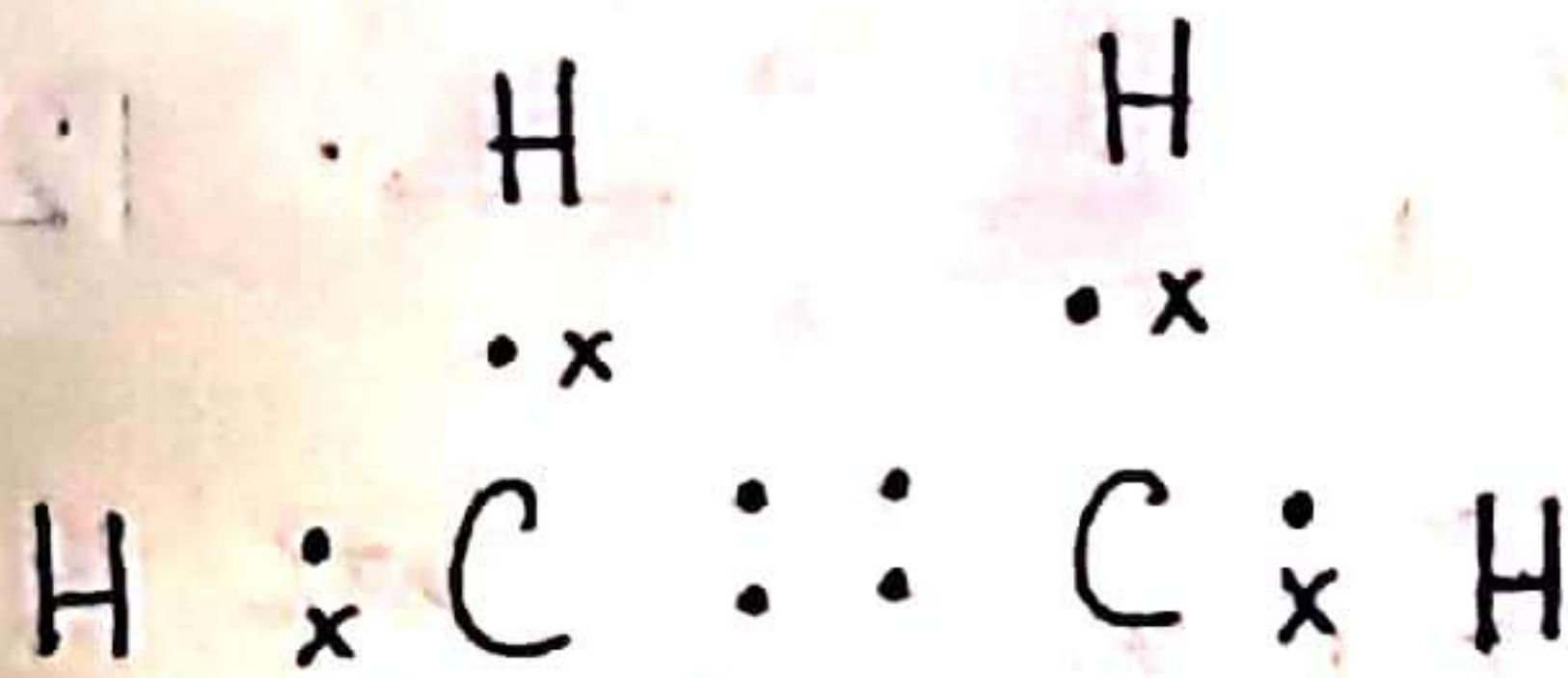
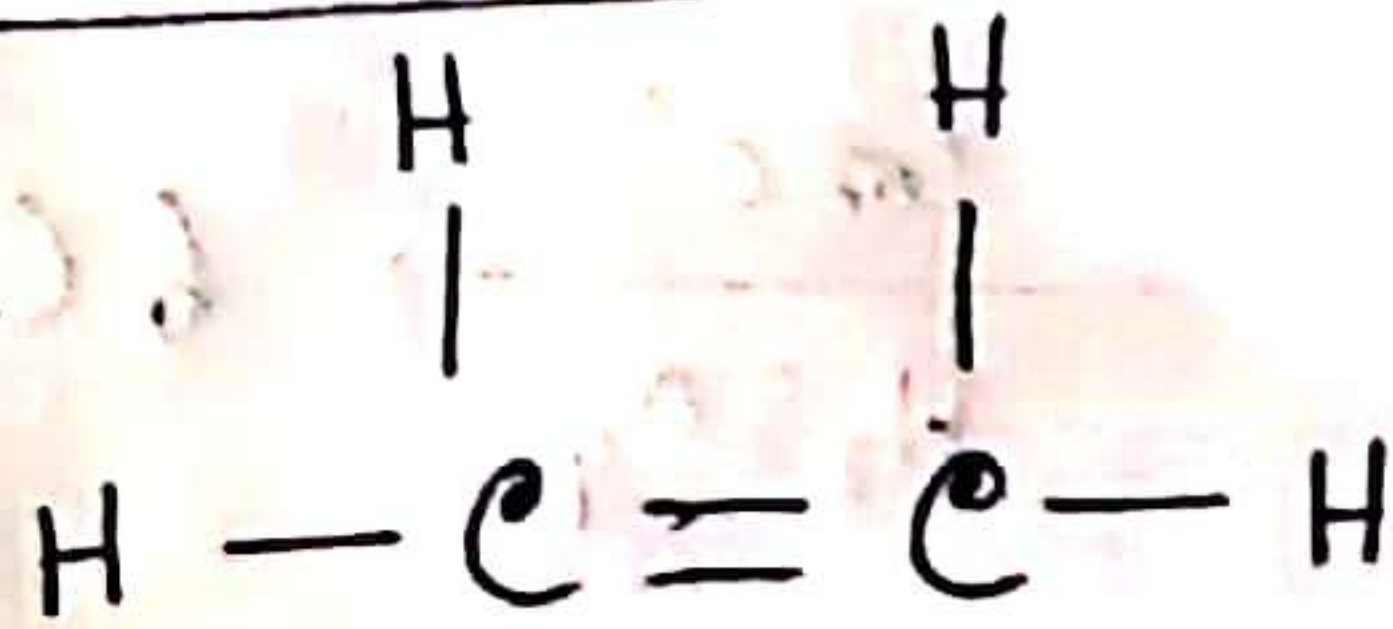
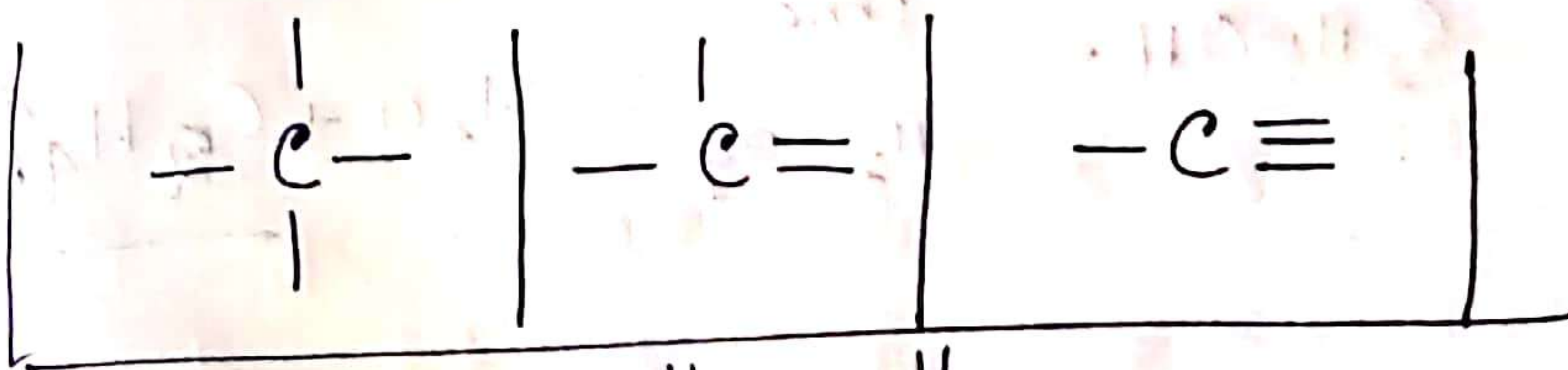
6) Methane (CH<sub>4</sub>)

$$C = 2, 4$$

$$H = 1$$



7) Ethene (C<sub>2</sub>H<sub>4</sub>)





8) Ethyne ( $C_2H_2$ )

