Htomic Structure

Atom - smallest particles of an element, - can take part in chemical combination and doesn't occur free in nature, - atom of Hydrogen are smallest and lightest. Eg. Na, K, CA, H

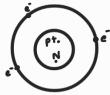
Molecule - smallest particles of an element that can have stable and independent existence. Eg. O2, N2, Cl2, P4, S8

Mole - Mole is collection of 6.023 × 10 raised to 23 particles. It is also called as Avagadro's Number.

Atomic Mass - ratio of mass of one atom of element to 1/12th part of mass of one atom of Carbon 12.

Actual mass of 1 mass of 1 mass of 1 mass of 2 mass of a atom of C-12

Actual mass of 1 n con of elements atomic mass in amu × 1.66 × 10 ²⁴ g Molecular Mass - it indicates how many times one molecule of substance is heavier in comparison to 1/12th mass of one atom of C-12



Electron - discovered by **J.J.Thomson**,

- the name electron was given by Stoney.

- Mass of e - relative - 0.000543 amu absolute 9.1× 10 g