

## Atomic Structure

Q-1) The structure of an atom?

> The atom's mass is concentrated in a tiny central core called the nucleus.

The nucleus is made of particles called nucleons; protons and neutrons.

Outside the nucleus are electrons found in a region of space called orbitals in energy levels.

Sub-atomic particle	Symbol	mass	charge
electron	e	$\frac{1}{1836}$	-1
neutron	n	1	0
proton	p	1	+1

Q-2) What is nucleon number?

> Proton no. / atomic no. is the no. of protons in an atom.

> nucleon no. / mass no. is the no. of protons and neutrons in an atom.

Q-3) What are isotopes?

> Isotopes are atoms of the same element, with same no. of  $p^+$  and  $e^-$  but a different mass no. / different no. of neutrons.