

## Unit-2

### Equilibrium of Rigid bodies.

#### Beam:-

A beam is a horizontal structural member which carries load transverse (⊥) to its axis and transfers the load through support reactions to support column or walls.

#### Frame:

A structure made up of several members, riveted or welded together is known as frame.

#### Support reactions of Beam:

→ The force of resistance exerted by the support on beam is called support reaction.

\* Support rxn of beams depends upon the type of loading and type of support and type of loading first.

#### Types of Support:-

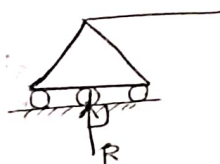
- ↳ ① Roller support.
- ② Hinged support
- ③ Fixed support.

#### Roller support:

\* Simplest type of support.



single roller



Group Roller.