

## Section - B

(vii) Define gravity and what is value of gravity.

→ An invisible force that pulls objects towards each other. Earth's gravity is what keeps you on ground and makes things fall.

→ The acceleration due to gravity on Earth is  $9.8 \frac{m}{s^2}$ .

(X) Differentiate between ionic and covalent bonds.

Ionic bond.

In ionic bonding, one atom donates electrons to the other.

Covalent bond.

In covalent bonding the two atoms share electrons.

(Xii) Write a short note on Equilibrium.

Objects or systems that are in equilibrium have no net force and no net torque acting on them.

(Xiv) Define efficiency and mechanical advantage.

→ A comparison of the energy output to the energy input in a given system.

→ Mechanical advantage is the ratio of load effort i.e., output force to input force.