

NOTE

3 IN AN UNBIASED P-N JUNCTION

1 The majority carrier current and minority carrier current are equal in magnitude and flow in opposite directions, thus there is no net flow of current across the junction.

4 The higher the doping level the thinner will be the depletion layer and vice versa.

5 In 1919, William Henry Eccles coined the term 'diode' from the Greek roots 'dia' means 'through' and 'ode' means path.

BIASING THE P-N JUNCTION: (APPLYING DC VOLTAGE ACROSS THE JUNCTION)

Connecting a P-N Junction to an external DC voltage is called **Biasing**.

The biasing is classified into two types namely



FORWARD BIASING

When external dc voltage applied to the junction is in such a direction that it cancels the potential barrier thus permitting current flow, it is called **forward Biasing**.