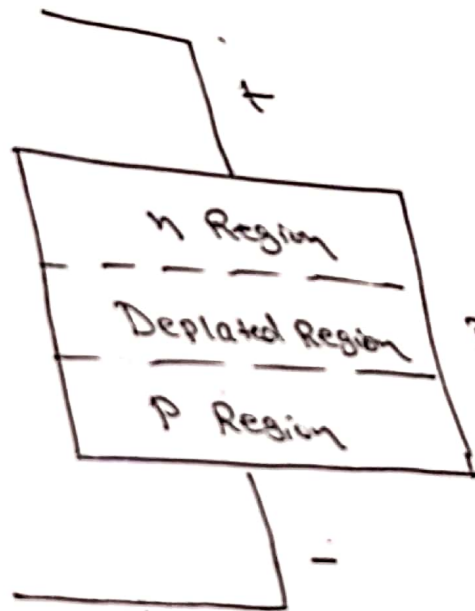


* Absorption losses in optical fibers :-

⇒ Absorption of signal is a serious loss mechanism in an optical fiber. Absorption occurs in optical fibers due to the presence of imperfection in the atomic structure of the fiber material, due to some basic inherent ~~in~~ intrinsic material properties and due to some extrinsic material properties.

Imperfection may appear in atomic structure due to oxygen deficiencies and missing of certain molecules. Diffusion of hydrogen molecules may also produce absorption. But the contribution from imperfection is relatively small in optical ~~opt~~ absorption loss.



Diode is reverse-biased
no current flow

