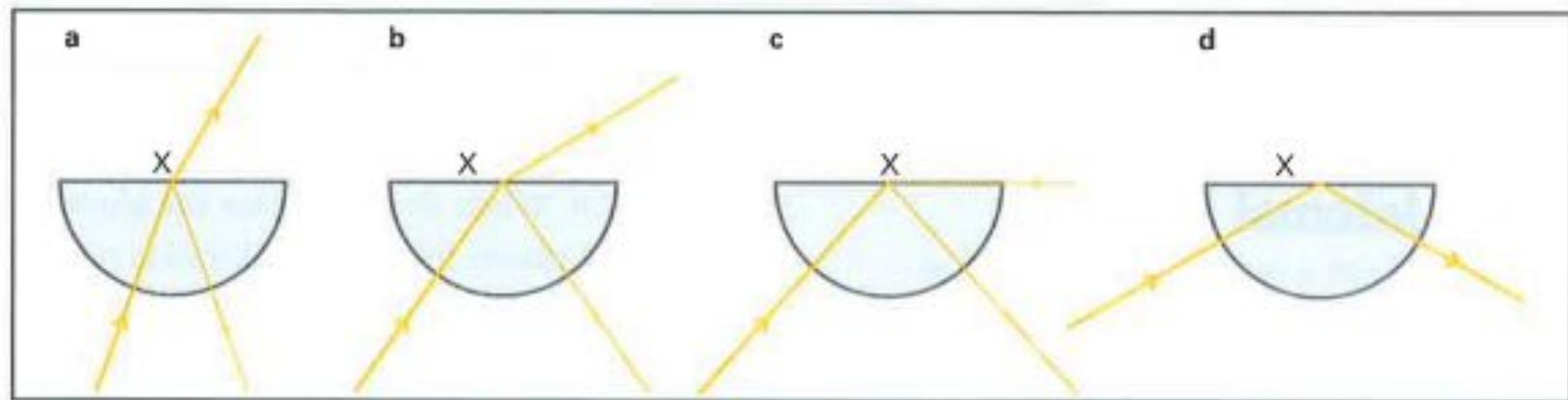


# TOTAL INTERNAL REFLECTION

TEACHER : Priti Shethia

If the angle of incidence of a ray at a surface is greater than or equal to the critical angle, it will be totally internally reflected.



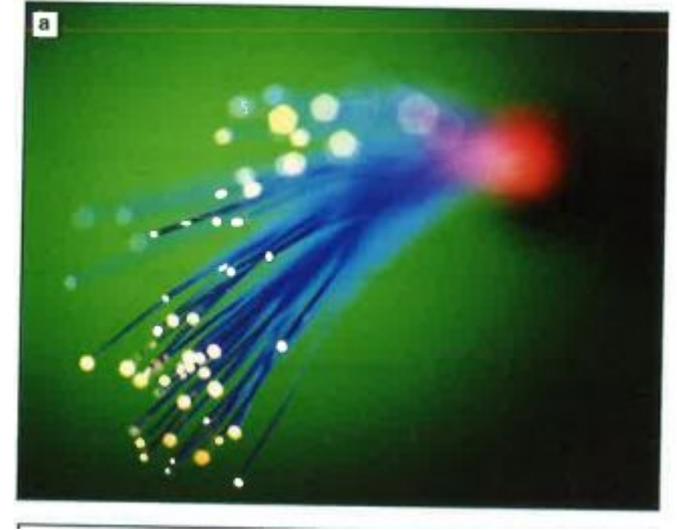
# Optical Fibers

Fiber optics (optical fibers) are long, thin strands of very pure glass about the size of a human hair. They are arranged in bundles called optical cables and used to transmit signals over long distances.

Fiber optic data transmission systems send information over fiber by turning electronic signals into light.

Telephone messages and other electronic signals are passed through these fibres in the form of flashing laser light

Each of the fibre shown in fig a is capable of carrying thousands of telephone calls simultaneously



Optical fibres are also used in medicine. An endoscope is a device used by doctors to see inside the patient's body.

