

Answer 10

(a) The mirror which always produces an erect and virtual image is a convex mirror. The size of the image is always smaller than the size of the object.

(b) When an object is placed between the focus and the pole of a concave mirror, the image formed is erect and magnified.

(c)

MEDIUM	SPEED OF SOUND (ms⁻¹)
Air	330
Water	1450
Steel	5100

Speed of sound is more in solid (steel), less in liquid (water) and least in gas (air).

(d) In case of electrostatic conduction, the transfer of electrons takes place between the conductor and the charged body whereas in case of induction, no such transfer takes place, only the realignment of electrons in the induced body occurs.

(e) No, the resistance of a wire doesn't depend on the circuit in which it is connected. Resistance of a wire depends only on the length of wire, type of material of the wire, area of cross section of wire and temperature of the wire.