Ques-8:- Wave Theory Of Light:-

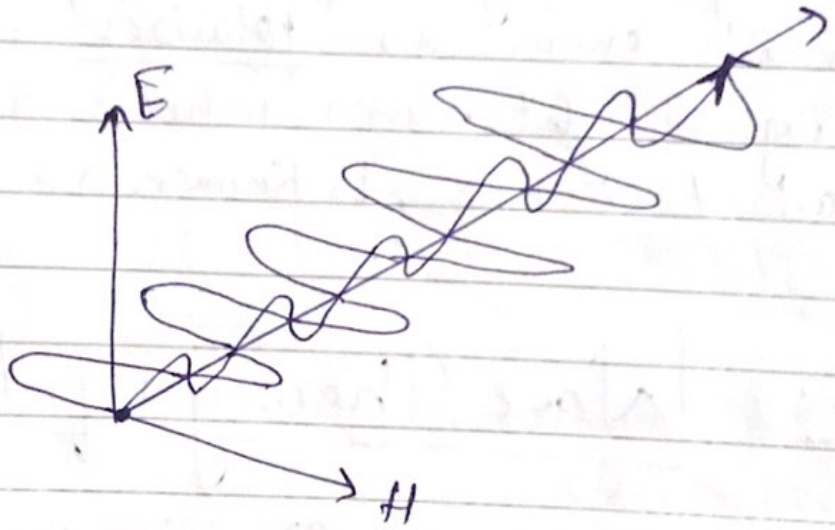
First Spread, most Significantly by ROBERT HOOKE & CHRISTIAN HUYGENS in the 17th Century.

They predict that if light was a wave, we would see that light could reflect off shiny surfaces, refract (or Bend) when moving from one material into another, and diffract (or Spread) around objects or moving through slits. it should also be possible to see interference where peaks or troughs of waves add up to create brighter light, & peaks & troughs cancel out to create darker areas.

Much of time, light [redacted] Behaves like a Waves because they made up of Both electric and

(6)

Magnetic (H) fields. EMF oscillate ⊥ to direction of wave travel & perpendicular to each other. Light waves are known as transverse wave as they oscillate in direction transverse to direction of wave travel.



→ EM waves :-