



# **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam (Po), Coimbatore – 641 107

**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Subject Code: 19EC502

Subject: Transmission Lines and Antennas

Unit-II

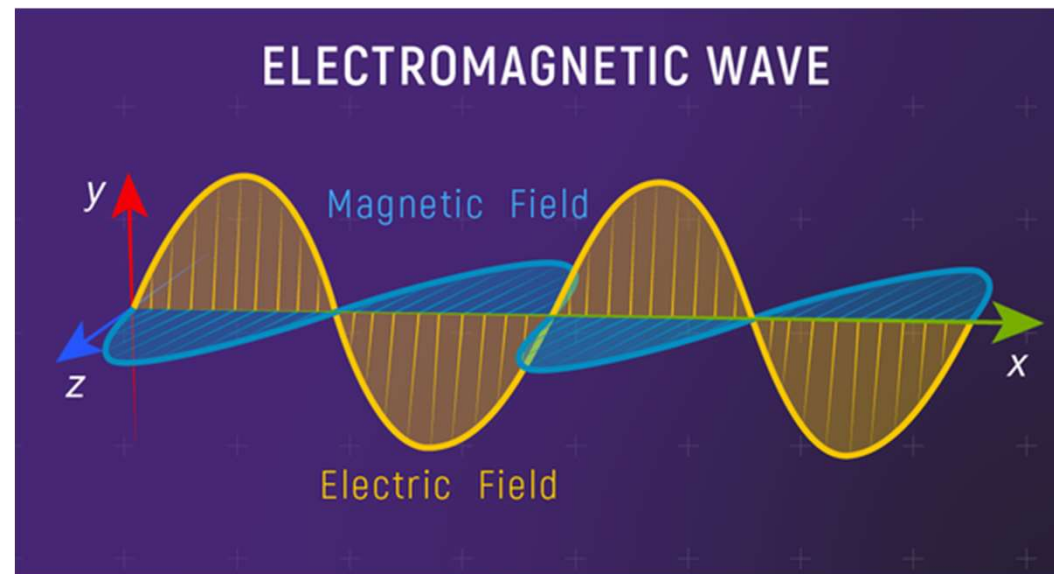
**PUZZLES**





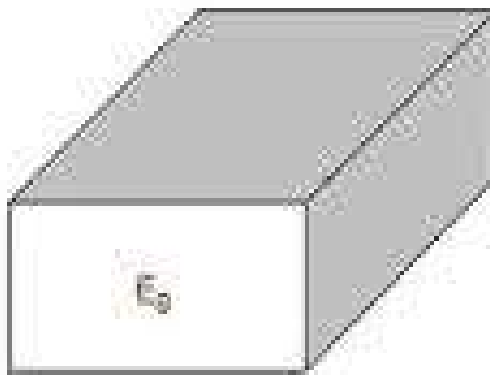
# TE, TM and TEM WAVES

When studying waves between parallel planes of perfect conductors, you realize that there is no electric field component along the length of the planes. What kind of wave is this?

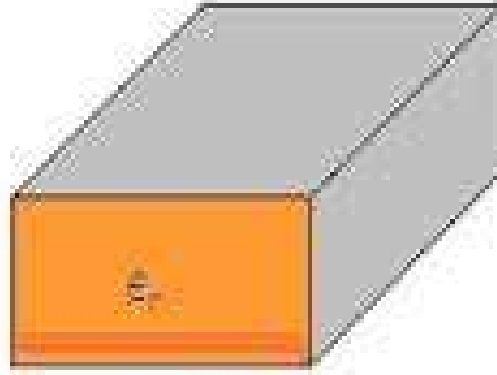


# WAVE GUIDES

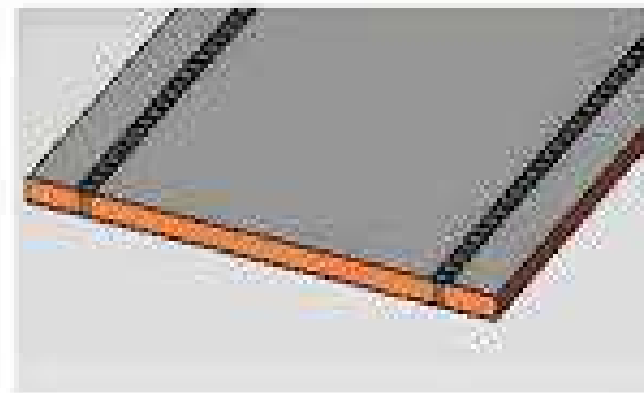
A rectangular waveguide has started operating at a very low frequency. However, you notice that no TE or TM waves are propagating. What is likely happening?



(a)



(b)



(c)

# WAVE GUIDES

A rectangular waveguide has started operating at a very low frequency. However, you notice that no TE or TM waves are propagating. What is likely happening?

