

CL2\_Q1. Which are the Maxwell's equations that contain 'sources'?

CL2\_Q2. Discuss the phase correlation and direction of the **E** and **B** fields of an EM Wave.

CL2\_Q3: What is the physical meaning of Poynting vector? Show that the electric and magnetic fields in an electromagnetic wave are perpendicular to each other.

CL2\_Q4: What made Maxwell to conclude that electric fields in free space travel with the speed of light?