

Worksheet: Electromagnetic Waves

Tamil Nadu State Board · Class 12 · Physics · 5 questions · 12 marks

Name: _____

Date: _____

Score: _____ / 12

Q1. A capacitor is charged at 2 A. Find the displacement current between its plates. *[2 marks]*

Q2. An EM wave has frequency 1×10^{10} Hz. Find its wavelength in air. *[2 marks]*

Q3. Arrange in increasing wavelength: X-rays, visible light, radio waves, IR. *[2 marks]*

Q4. An EM wave has $B_0 = 1 \times 10^{-6}$ T. Find E_0 and the average intensity. *[3 marks]*

Q5. A 100 W bulb emits uniformly. Find the intensity at 1 m. *[3 marks]*
