

→ ELECTROMAGNETIC WAVES & ELECTRONICS (Semi-Conductor)

Chapter - 16

Q.1: Under what circumstances does a charge radiate electromagnetic waves?

Ans: A charge radiates e.m. waves when it is accelerated.

Q.2: in an electromagnetic wave, what is the relationship, if any, between the variation in the magnetic and electric fields?

Ans: In an electromagnetic wave, the transverse sinusoidal oscillating electric field and magnetic field are propagated at right angles to each other and to the direction of motion.

Q.3: A radio transmitter has a vertical antenna. Does it matter whether the receiving antenna is vertical or horizontal?

Ans: A receiving antenna should be vertical just like a transmitting antenna. A horizontal receiving antenna will intercept much less radio frequency signals.

Q.4: Explain why are light waves able to travel through a vacuum, whereas sound waves cannot?

Ans: Light waves are electro-magnetic waves (of wavelength 400 nm to 760 nm). Sound waves are produced due to the vibration of the molecules of a medium. Hence sound waves require a material medium, whereas light waves do not require medium for their propagation.

Q.5: Explain the condition under which radiation of electromagnetic waves takes place from a certain source?

Ans: When a transmitting antenna is couples with an alternating source of potential (known as oscillator), charges (electrons) are accelerated up and down the antenna. This creates a fluctuating electric flux, which generates a magnetic flux. Hence the waves propagated from an antenna are e.m. waves.

Q.6: Can a diode be used for amplifying a weak signal?

Ans: Normally, a diode cannot be used for amplifying a weak signal. But specially constructed diode (e.g. tunnel diode) can be used as amplifier and oscillator for microwave frequencies.

Q.7: Are radio waves form of light?

Ans: Since both radio waves and visible light are electromagnetic in nature, hence we can say that radio waves are a form of light (of frequency 4×10^{14} Hz), having frequencies much lower (30 kHz to 300 MHz) than light.

Answers For Electromagnetic Waves Test Questions

Léo Pomar



Answers For Electromagnetic Waves Test Questions:

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