

1. An alternating current or voltage
 - A. fluctuates off and on
 - B. varies in magnitude alone
 - C. changes its direction again and again
 - D. harmonically and reverses its direction of flow after regularly recurring intervals.

Answer: Option C

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2. A changing magnetic flux produces around itself an induced
 - A. Magnetic field
 - B. Electric field
 - C. Electromagnetic force
 - D. Artificial gravitational field

Answer: Option C

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3. Maxwell derived mathematically that the velocity of the electromagnetic waves is
 - A. $1/\sqrt{\mu_0 \epsilon_0}$
 4. Electromagnetic waves travel in free space with the speed of
 - A. γ -rays
 - B. Positive rays
 - C. Cathode rays
 - D. More than sound waves

Answer: Option A

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5. The direction of propagation of an electromagnetic waves is
 - A. Perpendicular to electric field
 - B. Perpendicular to both electric and magnetic field
 - C. Perpendicular to magnetic field
 - D. Parallel to electric and magnetic field

Answer: Option B

6. An electromagnetic wave consists of

- A. Electric and magnetic fields moving parallel to each other
- C. Electric field moving with velocity of light
- B. Magnetic field moving with velocity of light in space
- D. Electric and magnetic fields moving perpendicular to each other

Answer: Option **D**

7. Electromagnetic waves transport

- A. Energy
- C. Mass
- B. Momentum
- D. Heat

Answer: Option **A**

8. Waves emitted from the antenna are

- A. Sound waves
- C. Radio waves
- B. Electromagnetic waves
- D. Modulated waves

Answer: Option **B**

9. Electromagnetic waves emitted from antenna are

- A. Stationary
- C. Transverse
- B. Longitudinal
- D. All the above

Answer: Option **C**

10. Natural or resonant frequency of an LC circuit is

Answer: Option **D**