

Chapter 1

Electromagnetic Waves MCQs

MCQ 1: Among the four, the highest wavelength is of

- A. radio waves
- B. infrared
- C. ultraviolet
- D. gamma rays

MCQ 2: Electromagnetic waves carry

- A. positive charge
- B. negative charge
- C. no charge
- D. both positive and negative charge

MCQ 3: Electromagnetic wave with lowest frequency is

- A. radio waves
- B. infrared
- C. ultraviolet
- D. gamma rays

MCQ 4: Electromagnetic waves travel

- A. without medium
- B. with medium
- C. with medium and without medium
- D. in a disturbed path

MCQ 5: Electromagnetic spectrum comprises

- A. transverse waves
- B. longitudinal waves
- C. transverse and longitudinal both
- D. latitudinal waves

MCQ 6: Which one of the waves tans our skin and causes some substances to become fluorescent?

- A. infrared waves
- B. ultraviolet waves
- C. gamma rays
- D. infrared and ultraviolet waves both

MCQ 7: Wave that cannot be seen through electromagnetic spectrum is

- A. radio waves
- B. micro waves
- C. infrared waves
- D. ultraviolet waves

MCQ 8: Wave with highest frequency is

- A. radio waves
- B. infrared
- C. ultraviolet
- D. gamma rays

MCQ 9: Waves having lowest wavelength is

- A. radio waves
- B. infrared
- C. ultraviolet
- D. gamma rays

MCQ 10: Electromagnetic waves are

- A. transverse waves
- B. longitudinal waves
- C. latitudinal waves
- D. reversal waves

MCQ 11: When the medium of electromagnetic waves changes from air to water, their speed

- A. increases
- B. remains same
- C. decreases
- D. may increase or decrease

MCQ 12: Faster among the waves and rays is

- A. waves
- B. both have no speed
- C. rays
- D. both have equal speed

MCQ 13: Electromagnetic waves obey the law of

- A. refraction only
- B. reflection and refraction both
- C. reflection only
- D. momentum

MCQ 14: Speed of electromagnetic waves in vacuum is

- A. $30 \times 10^8 \text{ m s}^{-1}$
- B. $4 \times 10^8 \text{ m s}^{-1}$
- C. $3.0 \times 10^8 \text{ m s}^{-1}$

D. $6.0 \times 10^8 \text{ m s}^{-1}$

MCQ 15: As the speed decreases if we change the medium of electromagnetic waves from air to water, the frequency

- A. also decreases
- B. also increases
- C. remains same
- D. may increase or decrease

MCQ 16: Electromagnetic waves that include light belong to

- A. light spectrum
- B. electronic spectrum
- C. electromagnet group
- D. electromagnetic spectrum

MCQ 17: Electromagnetic waves

- A. transfer energy
- B. cannot transfer energy
- C. may transfer energy
- D. are longitudinal