

2. Power radiated by an electric dipole is proportional to the fourth power of the

- (a) Frequency
- (b) Length
- (c) Diameter
- (d) Current.

3. Good conductor of electricity are opaque to

- (a) Voltage
- (b) Current
- (c) Light
- (d) Watt.

4. In polarisation, the positions of the electrons are altered from their equilibrium value while _____ remain stationary.

- (a) Frequency
- (b) Phase
- (c) Wavelength
- (d) Nuclei.

5. Space time interval is invariant under _____ transformation

- (a) Lorentz
- (b) Gauss
- (c) Maxwell
- (d) Electromagnetic.

Fill up the blanks :

6. The total bound charge on a dielectric is Constant

7. Dimension of poynting vector is x (or) y (or) z direction

8. Gamma ray or X ray of the wave remains unchanged by reflection and refraction.

9. Dimension of Thomson Scattering cross section is $\frac{2}{3} \pi r_0^2$

10. Tensor equations are Variant under co-ordinate transformation.

Match the following :

- 11. σ (a) Classical radius of electron r_0
- 12. $R,$ (b) Four dimensional divergence operator ∇
- 13. ϕ (c) Surface charge density σ