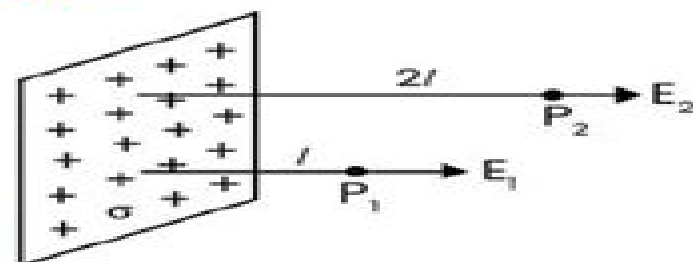


ELECTROSTATICS



1. A parallel plate capacitor is formed by two plates each of area $30\pi\text{cm}^2$ separated by 1 mm. A material of dielectric strength $3.6 \times 10^7 \text{Vm}^{-1}$ is filled between the plates. If the maximum charge that can be stored on the capacitor without causing any dielectric breakdown is 7×10^{-4} the value of dielectric constant of the material is : [Use $\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{Nm}^2\text{C}^{-2}$]

(a) 1.66 (b) 1.75
(c) 2.25 (d) 2.33

2. If the charge on a capacitor is increased by 2 C, the energy stored in it increases by 44%. The original charge on the capacitor is (in C)

(a) 10 (b) 20
(c) 30 (d) 40

3. A long cylindrical volume contains a uniformly distributed charge of density ρ . The radius of cylindrical volume is R. A charge particle (q) revolves around the cylinder in a circular path. The kinetic energy of the particle is:

(a) $\frac{\rho q R^2}{4\epsilon_0}$ (b) $\frac{\rho q R^2}{2\epsilon_0}$
(c) $\frac{\rho q}{4\epsilon_0 R^2}$ (d) $\frac{4\epsilon_0 R^2}{\rho q}$

4. In the figure, a very large plane sheet of positive charge is shown. P_1 and P_2 are two points at distance l and $2l$ from the charge distribution. If σ is the surface charge density, then the magnitude of electric fields E_1 and E_2 at P_1 and P_2 respectively are:

(a) $E_1 = \frac{\sigma}{\epsilon_0}, E_2 = \frac{\sigma}{2\epsilon_0}$
(b) $E_1 = \frac{2\sigma}{\epsilon_0}, E_2 = \frac{\sigma}{\epsilon_0}$
(c) $E_1 = E_2 = \frac{\sigma}{2\epsilon_0}$
(d) $E_1 = E_2 = \frac{\sigma}{\epsilon_0}$

5. Two metallic plates form a parallel plate capacitor. The distance between the plate is 'd'. A metal sheet of thickness $\frac{d}{2}$ and of area equal to area of each plate is introduced between the plates. What will be the ratio of the new capacitance to the original capacitance of the capacitor?

(a) 2 : 1 (b) 1 : 2
(c) 1 : 4 (d) 4 : 1

6. A force of 10 N acts on a charged particle placed between two plates of a charged capacitor. If one plate of capacitor is removed, then the force acting on that particle will be

(a) 5 N (b) 10 N
(c) 20 N (d) zero

7. Two capacitors having capacitance C_1 and C_2 respectively are connected as shown in figure. Initially, capacitor C_1 is charged to a potential difference V volt by a battery. The battery is then removed and the charged capacitor C_1 is now connected to uncharged

Practice Test Paper For Electrostatics Iit Jee

David Baud



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