Physics

(www.tiwariacademy.com) (Chapter 1) (Electric Charges and Fields) (Class 12)

Question 1.13:

Figure shows tracks of three charged particles in a uniform electrostatic field. Give the signs of the three charges. Which particle has the highest charge to mass ratio?



Answer 1.13:

Opposite charges attract each other and same charges repel each other. It can be observed that particles 1 and 2 both move towards the positively charged plate and repel away from the negatively charged plate. Hence, these two particles are negatively charged. It can also be observed that particle 3 moves towards the negatively charged plate and repels away from the positively charged plate. Hence, particle 3 is positively charged.

The charge to mass ratio (emf) is directly proportional to the displacement or amount of deflection for a given velocity. Since the deflection of particle 3 is the maximum, it has the highest charge to mass ratio.

Question 1.14:

Consider a uniform electric field E = 3 × 103 f N/C.

(a) What is the flux of this field through a square of 10 cm on a side whose plane is parallel to the yz plane?

(b) What is the flux through the same square if the normal to its plane makes a 60° angle with the x-axis?

__Answer 1.14:

(a) Electric field intensity, E = 3 × 10³ î N/C

Magnitude of electric field intensity, $|E| = 3 \times 10^3 \text{ N/C}$

Side of the square, s = 10 cm = 0.1 m

Area of the square, $A = s^2 = 0.01 \text{ m}^2$

The plane of the square is parallel to the y-z plane. Hence, angle between the unit vector normal to the plane and electric field. $\theta = 0^{\circ}$

Flux (ϕ) through the plane is given by the relation,

 $\phi = |\mathbf{E}|A\cos\theta$

 $= 3 \times 10^{3} \times 0.01 \times \cos 0^{\circ} = 30 \text{ N m}^{2}/\text{C}$

(b) Plane makes an angle of 60° with the x - axis. Hence, θ = 60°

Flux, $\phi = |\mathbf{E}|A\cos\theta$

 $= 3 \times 10^3 \times 0.01 \times \cos 60^\circ$

 $=30 \times \frac{1}{2}$

 $= 15 \text{ N m}^2/\text{C}$

Question 1.15:

What is the net flux of the uniform electric field of Exercise 1.14 through a cube of side 20 cm oriented so that its faces are parallel to the coordinate planes?

__Answer 1.15:

All the faces of a cube are parallel to the coordinate axes. Therefore, the number of field lines entering the cube is equal to the number of field lines piercing out of the cube. As a result, net flux through the cube is zero.

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