

## CONCEPTUAL QUESTIONS

**Q. 1:** Electric potential is constant through a given region of space. Is the electric field zero or non-zero in this region? Explain.

**Answer:** Electric field will be zero in the given region.

We know that electric field intensity  $E$  and electric potential  $V$  are related by the equation:

$$E = -\frac{\Delta V}{\Delta r}$$

When  $V = \text{constant}$ , then  $\Delta V = 0$ . Hence

$$E = -\frac{0}{\Delta r} = 0$$

For example, the electric potential is constant inside a uniformly charged hollow or solid conductor while the electric field intensity is zero inside the conductor.

**Q. 2:** If a point charge  $q$  of mass  $m$  is released in a non-uniform electric field with field lines pointing in the same direction. Will it make a rectilinear motion?

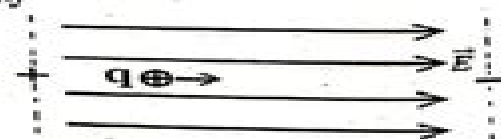
**Answer:** Yes, the charge  $q$  will make a rectilinear motion.

Force acting on a charge  $q$  in an electric field is given by

$$\vec{F} = q\vec{E}$$

Acceleration  $\vec{a}$  produced is given by

$$\vec{a} = \frac{\vec{F}}{m} = \frac{q\vec{E}}{m}$$



Now if  $\vec{E}$  is constant then the charge will make rectilinear motion with uniform acceleration and if  $\vec{E}$  is not constant then the charge will make rectilinear motion with variable acceleration.

**Q. 3:** What is the relationship between voltage and energy? More precisely, what is the relationship between potential difference and electric potential energy?

**Answer:** Electric potential energy  $U$  of a charge  $q_0$  at any point in an electric field is defined as the amount of work done in carrying the charge  $q_0$  from infinity to that point.

$$U = \text{Work done} = \vec{F} \cdot \vec{d}$$

$$U = q_0 \vec{E} \cdot \vec{d}$$

$$\text{-----} \rightarrow (1)$$

Voltage or electric potential  $V$  at any point in an electric field is defined as the amount of work done in carrying a unit positive charge from infinity to that point.

# Conceptual Physics 33 Electrostatics Answers

**Hugh D. Young, Roger A. Freedman**



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