

### 3. ELECTRIC POTENTIAL

**Synopsis:**

**1. Electric potential (V):**

- i) Electric potential at a point in a field is the amount of work done in bringing a unit +ve charge from infinity to the point.
- ii) It is equal to the Electric potential energy of unit + ve charge at that point.
- iii) It is a scalar
- iv) S.I unit is volt
- v) Potential at a distance 'd' due to a point charge q in air or vacuum is  $V = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{d}$
- vi)  $V = - \int \vec{E} \cdot d\vec{x}$
- vii)  $\vec{E} = - \frac{dv}{dx}$  (or)  $V = Ed$
- viii) A positive charge in a field moves from high potential to low potential where as electron moves from low potential to high potential when left free.
- ix) Work done in moving a charge q through a potential difference V is  $W = q V$  joule
- x) Gain in the Kinetic energy:  $\frac{1}{2}mv^2 = qV$
- xi) Gain in the velocity  $v = \sqrt{\frac{2qV}{m}}$

**2. Equipotential surface**

- i) A surface on which all points are at the same potential
- ii) Electric field is perpendicular to equipotential surface
- iii) Work done in moving a charge on equipotential surface is zero.

**3. In the case of a hollow charged sphere.**

- i) Intensity at any point inside the sphere is zero.
- ii) Intensity at any point on the surface is same and it is maximum  

$$E = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{r^2}$$
- iii) Outside the sphere  $E = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{d^2}$  d = distance from the centre
- iv) It behaves as if the whole charge is at its centre.
- v) Electric field Intensity in vector form  $\vec{E} = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{d^3} \vec{d}$  or  $\vec{E} = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{d^2} \hat{d}$
- vi) The resultant electric field intensity obey's the principle of superposition.  

$$\vec{E} = \vec{E}_1 + \vec{E}_2 + \vec{E}_3 + \dots$$



# Chapter 3 Electric Fields And Potential Answers S

**David Halliday, Robert Resnick**



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