Electrostatic potential due to an electric dipole at any point P whose position vector is r w.r.t. mid-point of dipole is given by

$$V = \frac{1}{4\pi\epsilon_0} \cdot \frac{p\cos\theta}{r^2}$$

or

 $V = \frac{1}{4\pi\varepsilon_0} \cdot \frac{\mathbf{p} \cdot \hat{\mathbf{r}}}{|\mathbf{r}|^2}$ 

7. The electrostatic potential on the perpendicular bisector due to an electric dipole is zero.

8. Electrostatic potential at any point P due to a system of n point charges  $q_1, q_2, ..., q_n$  whose position vectors are  $\mathbf{r}_1, \mathbf{r}_2, ..., \mathbf{r}_n$  respectively, is given by

$$V = \frac{1}{4\pi\varepsilon_0} \sum_{i=1}^{n} \frac{q_i}{|\mathbf{r} - \mathbf{r}_i|}$$

where, r is the position vector of point P w.r.t. the origin.

- Electrostatic potential due to a thin charged spherical shell carrying charge q and radius R respectively, at any point P lying
  - (i) inside the shell is  $V = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{R}$

where,  $\theta$  is the angle between r and p.

- (ii) on the surface of shell is  $V = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{R}$
- (iii) outside the shell is  $V = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{r}$  for r > R

where, r is the distance of point P from the centre of the shell.

# **Grade 12 2013 Electrostatic Question Paper**

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