

54. What is an electric dipole moment and write its SI unit and direction.

Ans: A system of two equal and opposite point charges separated by a small distance is called an electric dipole. Its SI unit is Cm and direction from –ive charge to +ive charge.

55. Why two electric field lines never cross each other at any point?

Ans: Electric field lines never intersect each other. In case the two electric lines of force intersect each other at a point (such as point  $P$  in Fig.), then two tangents can be drawn at that point. This would mean two directions of electric field at that point which is impossible.



56. Can two equipotential surfaces intersect each other?

Ans. No. The intersection of two equipotential surfaces means that at the point of intersection, there are two values of potential which is impossible. Alternatively; electric lines of force are normal to equipotential surfaces. If two equipotential surfaces intersect each other, it means that electric field at the point of intersection has two directions which is not possible.

57. Electric field intensity in a given region is zero. Can we conclude that electric potential must be zero?

Ans. Not necessarily.  $E = -dV/dr$  or  $0 = -dV/dr$ . Since  $dr$  cannot be zero,  $dV = 0$ . This means that electric potential is constant. The constant value can be zero or non-zero.

58. Two nearby points are at the same potential. What is the intensity of electric field in this region?

Ans.  $E = -dV/dr$  where  $dV$  is change in potential for displacement  $dr$ . Since there is no change in potential,  $dV/dr = 0$ . Hence, electric intensity in the region is zero.

59. Find the electric field due to a point charge using the concept of potential gradient.

Ans. The potential  $V$  due to point charge  $q$  at a distance  $r$  from the charge is

$$V = \frac{q}{4\pi\epsilon_0 r}$$

$$E = -\frac{dV}{dr} = -\frac{d}{dr} \left( \frac{q}{4\pi\epsilon_0 r} \right) = -\frac{q}{4\pi\epsilon_0} \left( -\frac{1}{r^2} \right) = \frac{q}{4\pi\epsilon_0 r^2}$$

60. What would be the work done if a point charge  $+q$  is taken from point  $A$  to point  $B$  on the circumference of a circle with another charge  $+q$  at the centre?

Ans. Fig. shows the conditions of the problem. Since points  $A$  and  $B$  are equidistant from the charge  $+q$  at the centre, the points  $A$  and  $B$  are at the same potential. Therefore, work done in taking charge  $+q$  from point  $A$  to point  $B$  is zero.



61. What is the work done in moving a  $2\mu\text{C}$  point charge from corner  $A$  to corner  $B$  of square  $ABCD$  [See Fig. 4] when a  $10\mu\text{C}$  charge exists at the centre of the square?

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**Huangqi Zhang**



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