

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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1. Understanding the eBook Physics 505paper 4june 23
 - The Rise of Digital Reading Physics 505paper 4june 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics 505paper 4june 23
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics 505paper 4june 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 505paper 4june 23
 - Personalized Recommendations
 - Physics 505paper 4june 23 User Reviews and Ratings
 - Physics 505paper 4june 23 and Bestseller Lists
5. Accessing Physics 505paper 4june 23 Free and Paid eBooks
 - Physics 505paper 4june 23 Public Domain eBooks
 - Physics 505paper 4june 23 eBook Subscription Services
 - Physics 505paper 4june 23 Budget-Friendly Options
6. Navigating Physics 505paper 4june 23 eBook Formats

- ePub, PDF, MOBI, and More
- Physics 505paper 4june 23 Compatibility with Devices
- Physics 505paper 4june 23 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics 505paper 4june 23
 - Highlighting and Note-Taking Physics 505paper 4june 23
 - Interactive Elements Physics 505paper 4june 23
- 8. Staying Engaged with Physics 505paper 4june 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 505paper 4june 23
- 9. Balancing eBooks and Physical Books Physics 505paper 4june 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 505paper 4june 23
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics 505paper 4june 23
 - Setting Reading Goals Physics 505paper 4june 23
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics 505paper 4june 23
 - Fact-Checking eBook Content of Physics 505paper 4june 23
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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