

# Physics

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(Chapter – 1) (Electric Charges and Fields)

(Class – XII)

## Question 1.7:

- (a) An electrostatic field line is a continuous curve. That is, a field line cannot have sudden breaks. Why not?  
(b) Explain why two field lines never cross each other at any point?

## Answer 1.7:

- (a) An electrostatic field line is a continuous curve because a charge experiences a continuous force when traced in an electrostatic field. The field line cannot have sudden breaks because the charge moves continuously and does not jump from one point to the other.  
(b) If two field lines cross each other at a point, then electric field intensity will show two directions at that point. This is not possible. Hence, two field lines never cross each other.

## Question 1.8:

Two point charges  $q_A = 3 \mu\text{C}$  and  $q_B = -3 \mu\text{C}$  are located 20 cm apart in vacuum.

- (a) What is the electric field at the midpoint O of the line AB joining the two charges?  
(b) If a negative test charge of magnitude  $1.5 \times 10^{-9} \text{ C}$  is placed at this point, what is the force experienced by the test charge?

## Answer 1.8:

(a) The situation is represented in the given figure. O is the mid-point of line AB.

Distance between the two charges,  $AB = 20 \text{ cm}$

$\therefore AO = OB = 10 \text{ cm}$

Net electric field at point O = E

Electric field at point O caused by  $+3\mu\text{C}$  charge,

$$E_1 = \frac{1}{4\pi\epsilon_0} \cdot \frac{3 \times 10^{-6}}{(OA)^2} = \frac{1}{4\pi\epsilon_0} \cdot \frac{3 \times 10^{-6}}{(10 \times 10^{-2})^2} \text{ NC}^{-1} \quad \text{along } OB$$

Where,  $\epsilon_0$  = Permittivity of free space and  $\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ Nm}^2\text{C}^{-2}$

Therefore,

Magnitude of electric field at point O caused by  $-3\mu\text{C}$  charge,

$$E_2 = \left| \frac{1}{4\pi\epsilon_0} \cdot \frac{-3 \times 10^{-6}}{(OB)^2} \right| = \frac{1}{4\pi\epsilon_0} \cdot \frac{3 \times 10^{-6}}{(10 \times 10^{-2})^2} \text{ NC}^{-1} \quad \text{along } OB$$

$$\therefore E = E_1 + E_2 = 2 \times \frac{1}{4\pi\epsilon_0} \cdot \frac{3 \times 10^{-6}}{(10 \times 10^{-2})^2} \text{ NC}^{-1} \quad \text{along } OB$$

[Since the magnitudes of  $E_1$  and  $E_2$  are equal and in the same direction]



# Physics Chapter 5 Review Answers

**LM Reder**



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## **Table of Contents Physics Chapter 5 Review Answers**

1. Understanding the eBook Physics Chapter 5 Review Answers
  - The Rise of Digital Reading Physics Chapter 5 Review Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Chapter 5 Review Answers
  - 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 Chapter 5 Review Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Chapter 5 Review Answers
  - Personalized Recommendations
  - Physics Chapter 5 Review Answers User Reviews and Ratings
  - Physics Chapter 5 Review Answers and Bestseller Lists
5. Accessing Physics Chapter 5 Review Answers Free and Paid eBooks

- Physics Chapter 5 Review Answers Public Domain eBooks
  - Physics Chapter 5 Review Answers eBook Subscription Services
  - Physics Chapter 5 Review Answers Budget-Friendly Options
6. Navigating Physics Chapter 5 Review Answers eBook Formats
    - ePub, PDF, MOBI, and More
    - Physics Chapter 5 Review Answers Compatibility with Devices
    - Physics Chapter 5 Review Answers Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physics Chapter 5 Review Answers
    - Highlighting and Note-Taking Physics Chapter 5 Review Answers
    - Interactive Elements Physics Chapter 5 Review Answers
  8. Staying Engaged with Physics Chapter 5 Review Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physics Chapter 5 Review Answers
  9. Balancing eBooks and Physical Books Physics Chapter 5 Review Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physics Chapter 5 Review Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physics Chapter 5 Review Answers
    - Setting Reading Goals Physics Chapter 5 Review Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physics Chapter 5 Review Answers
    - Fact-Checking eBook Content of Physics Chapter 5 Review Answers
    - 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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