

The given value of constants can be used wherever necessary.

Velocity of light in vacuum,  $c = 3 \times 10^8 \text{ m/s}$   
 Planck's constant,  $h = 6.64 \times 10^{-34} \text{ Js}$   
 Charge of the electron,  $e = 1.6 \times 10^{-19} \text{ C}$   
 Mass of the electron,  $m = 9.1 \times 10^{-31} \text{ kg}$   
 Avogadro number  $= 6.025 \times 10^{23} \text{ atom/mol}$   
 $\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2\text{N}^{-1}\text{m}^{-2}$   
 $\mu_0 = 4\pi \times 10^{-7} \text{ Tm/A}$

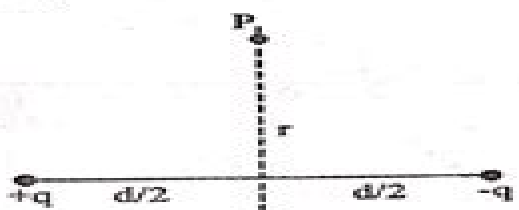
Questions 1 and 2 carry 1 Score each. Answer both.  
 (Scores :  $2 \times 1 = 2$ )

How will you represent a resistance of  $3700 \Omega \pm 5\%$  using colour code?

Draw the symbol of NAND gate.

Answer any six questions from question number 7 to 10. Each question carries 2 Scores.  
 (Scores :  $6 \times 2 = 12$ )

Two equal and opposite charges placed in air as shown in figure :

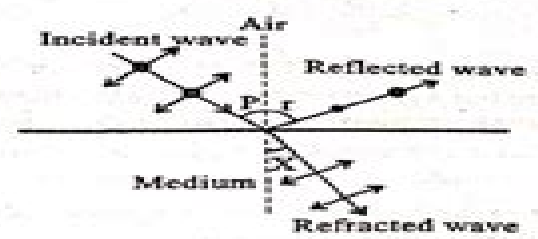


- Redraw the figure and show the direction of dipole moment (P), direction of resultant electric field (E) at P.
  - Write an equation to find out the electric field at P.
- Calculate the electrical capacitance of earth. The radius of earth is 6400 km.
- What do you mean by drift velocity? Write the relation between drift velocity and electric current.
- A galvanometer is connected as shown in the figure:

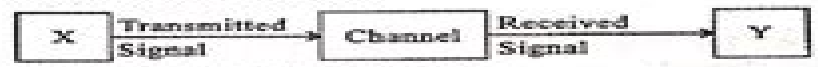


- This combination can be used as ..... (voltmeter/rheostat/ammeter)
- Derive an expression to find the value of resistance S.

7. An unpolarised light incident on a medium as shown in figure.



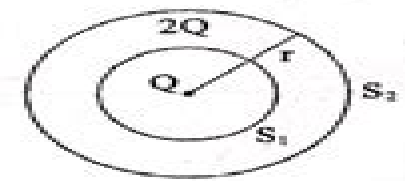
- Show that the direction of reflected and refracted waves are mutually perpendicular.
- How many electrons, protons and neutrons are there in 16g of  ${}^{16}_8\text{O}$ ?
  - The given block diagram shows general form of a communication system.



- Identify the blocks X and Y.
  - What is the difference between attenuation and amplification?
- What is the population covered by the transmission, if the average population density around the tower is  $1200 \text{ km}^{-2}$ ? The antenna height is 160 m.

Answer any five questions from question number 11 to 16. Each question carries 3 Scores.  
 (Scores :  $5 \times 3 = 15$ )

11. Two spheres encloses charges as shown in figure :



- Derive an expression for electric field intensity at any point on the surface  $S_2$ .
  - What is the ratio of electric flux through  $S_1$  and  $S_2$ ? (Scores :  $2 + 1$ )
12. The electric field lines of a positive charge is as shown in figure :

# High School Physics Questions And Answers

**S Ashworth**



## **High School Physics Questions And Answers:**

## High School Physics Questions And Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**High School Physics Questions And Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### Table of Contents High School Physics Questions And Answers

1. Understanding the eBook High School Physics Questions And Answers
  - The Rise of Digital Reading High School Physics Questions And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying High School Physics Questions And 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 High School Physics Questions And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from High School Physics Questions And Answers
  - Personalized Recommendations
  - High School Physics Questions And Answers User Reviews and Ratings
  - High School Physics Questions And Answers and Bestseller Lists

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