



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 $= 6.025 \times 10^{23} \text{ atom/mol}$
 $\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2\text{N}^{-1}\text{m}^{-2}$
 $\mu_0 = 4\pi \times 10^{-7} \text{ Tm/A}$

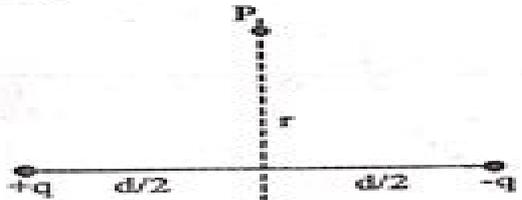
Questions 1 and 2 carry 1 Score each. Answer both.
 (Scores : $2 \times 1 = 2$)

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 :

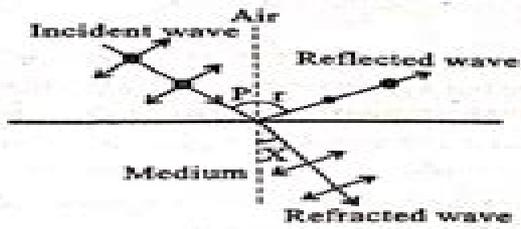


- Redraw the figure and show the direction of dipole moment (P), direction of resultant electric field (E) at P .
 - Write an equation to find out the electric field at P .
- Calculate the electrical capacitance of earth. The radius of earth is 6400 km.
- What do you mean by drift velocity? Write the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

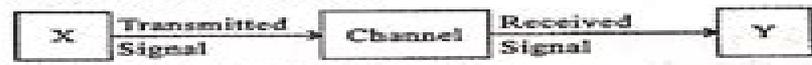


- This combination can be used as (voltmeter/rheostat/ammeter)
- Derive an expression to find the value of resistance S .

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



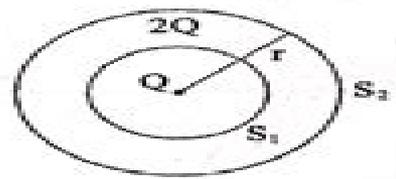
- Show that the direction of reflected and refracted waves are mutually perpendicular.
- How many electrons, protons and neutrons are there in 16g of ${}^8\text{O}^{16}$?
 - The given block diagram shows general form of a communication system.



- 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 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 :

Basic Engineering Physics Questions And Answers

J Rink



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