



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

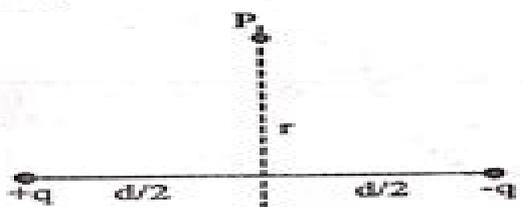
Questions 1 and 2 carry 1 Score each. Answer both.  
 (Scores :  $2 \times 1 = 2$ )

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 :

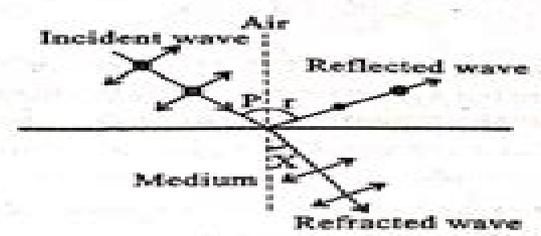


- Redraw the figure and show the direction of dipole moment ( $P$ ), direction of resultant electric field ( $E$ ) at  $P$ .
  - Write an equation to find out the electric field at  $P$ .
- Calculate the electrical capacitance of earth. The radius of earth is 6400 km.
- What do you mean by drift velocity?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

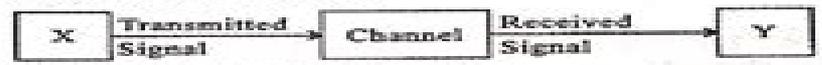


- This combination can be used as ..... (voltmeter/rheostat/ammeter)
- Derive an expression to find the value of resistance  $S$ .

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



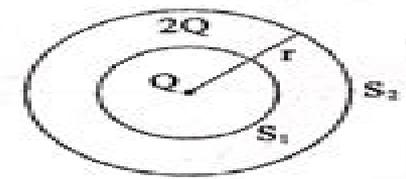
- Show that the direction of reflected and refracted waves are mutually perpendicular.
- How many electrons, protons and neutrons are there in 16g of  ${}^8\text{O}^{16}$ ?
  - The given block diagram shows general form of a communication system.



- 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  $1200 \text{ km}^{-2}$ ? 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 :  $2 + 1$ )
- The electric field lines of a positive charge is as shown in figure :

# Basic Engineering Physics Questions And Answers

**Katrin Zwirglmaier**



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Description. The Quanser SRV02 rotary servo plant, pictured in Figure 1, consists of a DC motor that is encased in a Quanser SRV02 Workbook Jan 1, 2019 — SRV02 Manual (Student).pdf. This laboratory guide contains pre-lab questions and lab experiments demonstrating how to model the Quanser. SRV02 ... SRV02 User Manual This module is designed to mount to a Quanser rotary servo plant (SRV02). The sensor shaft is aligned with the motor shaft. One end of a rigid link is mounted ... SRV02\_Rotary Pendulum\_User Manual.sxw The following table describes the typical setup using the complete Quanser solution. It is assumed that the ROTPEN is being used along with an SRV02, UPM and Q8 ... SRV02 Gyroscope User Manual The Quanser SRV02 and gyroscope system provides a great platform to study gyroscope properties along with control experiments that resemble real-life ... Rotary Servo Base Unit The Rotary Servo Base Unit is the fundamental element of the Quanser Rotary Control family. It is ideally suited to introduce basic control concepts and ... Control Systems Lab Solutions Quansers lab equipment for control systems are precise, robust, open architecture solutions for a wide range of teaching and research applications. Solutions Manual to accompany Principles of Corporate ... Solutions Manual to accompany Principles of Corporate Finance. 7th Edition. ISBN-13: 978-0072468007, ISBN ... Fundamentals of Corporate Finance - 7th Edition - Quizlet Our resource for Fundamentals of Corporate Finance includes answers to chapter exercises, as well as detailed information to walk you through the process step ... Fundamentals of Corporate Finance 7th Edition Brealey ... Fundamentals of Corporate Finance 7th Edition Brealey Solutions Manual - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Richard Brealey Solutions | Chegg.com Solutions Manual to accompany Principles of Corporate Finance 7th Edition 0 Problems solved, Richard A Brealey, Richard A. Brealey, Stewart C. Fundamentals Of Corporate Finance With Connect Plus 7th ... Access Fundamentals of Corporate Finance with Connect Plus 7th Edition solutions now. Our solutions are written by Chegg experts so you can be assured of ... Principles of corporate finance 7th edition solutions Principles of corporate finance 7th edition solutions manual Principles of from BUS5 162 at San Jose State University. Solutions manual to accompany principles of corporate ... Solutions manual to accompany principles of corporate finance. Authors: Richard A. Brealey, Stewart C. Myers, Bruce Swensen. Front cover image for Solutions ... Corporate finance brealey myers marcus 7th edition so corporate finance brealey myers marcus 7th edition so Solution manual for from ECON 358 at University of Nevada, Las Vegas. [AVAILABLE] Fundamentals of Corporate Finance by ... [AVAILABLE] Fundamentals of Corporate Finance by Richard A. Brealey (7th Canadian Edition) TEXTBOOK + TEST BANK + SOLUTIONS MANUAL. Fundamentals of Corporate Finance, 7ce Brealey Oct 17, 2023 — Fundamentals of Corporate Finance, 7th Canadian Edition, By Brealey, Myers, Marcus, Mitra, Gajurel (Solutions Manual with Test Bank). \$ 50.98 ...