

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Santhimi, Bhaktapur

Regular/Back Exam-2074, Falgun /Chaitra

Program: Diploma in Civil/Architecture/Electronics Full Marks: 60
/ Ref & AC/ Mechanical/Electrical
/Automobile /IT/Computer/E&E
/Geomatics Engineering

Year/Part: VI [New+ Old Course]

Pass Marks: 24

Subject: Physics

Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group "A" Attempt Any Three questions.

[3x6=18]

1. State the principle of conservation of linear momentum. Show that principle follows Newton's third law of motion.
2. What is satellite? Derive an expression for the escape velocity from the surface of earth?
3. Derive the relation $C_p = C_v + R$. Where symbols have their usual meanings. C_p is always greater than C_v , why?
4. Define magnetic field intensity. Derive an expression for the magnetic field intensity at a point on the equatorial line of a bar magnet.

Group "B" Attempt any Six questions:

[6x3=18]

5. Write the differences between scalar and vector product.
6. Prove that coefficient of static friction is equal to the tangent of angle of repose.
7. What is simple harmonic motion? Show that the motion of simple pendulum is simple harmonic motion.
8. Define coefficient of superficial expansion of a solid and establish the relation between coefficient of superficial expansion and coefficient of linear expansion of a solid.
9. Define isothermal process. Derive the expression for the work done in isothermal process.
10. Define refractive index. Show that refractive index:
$$(\mu) = \frac{\text{Real depth}}{\text{Apparent depth}}$$
11. Deduce the mirror formula using concave mirror.
12. Explain the domain theory of ferromagnetism.

Engineering Physics Question Papers

Jiyuan Zhang



Engineering Physics Question Papers:

Engineering Physics Question Papers Book Review: Unveiling the Magic of Language

In an electronic 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 "**Engineering Physics Question Papers**," compiled 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 into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Engineering Physics Question Papers

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

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