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**PHYSICS**  
**SCIENCE Paper – 1**  
*(Two hours)*

*Answers to this Paper must be written on the paper provided separately.*

*You will **not** be allowed to write during the first 15 minutes.*

*This time is to be spent in reading the Question Paper.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

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*Section I is compulsory. Attempt **any four** questions from Section II.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

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**SECTION I (40 Marks)**

*Attempt **all** questions from this Section.*

**Question 1**

- (a) Name a metal commonly used to make a calorimeter. Give a reason to support your answer. [2]
- (b) Draw a well labelled circuit diagram for the verification of Ohm's law. [2]
- (c) Why is radioactivity considered to be a nuclear phenomenon? [2]
- (d) Draw a ray diagram to show how a convex lens can be used as a magnifying glass. [2]
- (e) A metal ball of mass 60 g falls on a concrete floor from a vertical height of 2.8m and rebounds to a height of 1.3 m. Find the change in K.E. in S.I. units. [2]

**Question 2**

- (a) What is the work done by a force when the force is:
- (i) normal to the displacement produced. [2]
- (ii) in the same direction as the displacement produced.
- (b) State the S.I. unit of specific heat capacity and heat capacity. [2]
- (c) Draw a labelled diagram to show the path of a monochromatic light ray of light in a prism kept at its angle of minimum deviation. [2]

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**This paper consists of 5 printed pages.**

# Diploma First Year Applied Physics Questions Paper

**Mark Steyvers**



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## **Table of Contents Diploma First Year Applied Physics Questions Paper**

1. Understanding the eBook Diploma First Year Applied Physics Questions Paper
  - The Rise of Digital Reading Diploma First Year Applied Physics Questions Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Diploma First Year Applied Physics Questions Paper
  - 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 Diploma First Year Applied Physics Questions Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Diploma First Year Applied Physics Questions Paper
  - Personalized Recommendations
  - Diploma First Year Applied Physics Questions Paper User Reviews and Ratings
  - Diploma First Year Applied Physics Questions Paper and Bestseller Lists
5. Accessing Diploma First Year Applied Physics Questions Paper Free and Paid eBooks
  - Diploma First Year Applied Physics Questions Paper Public Domain eBooks
  - Diploma First Year Applied Physics Questions Paper eBook Subscription Services

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