

# ICSE Class 10 Physics Question Paper Solution 2015

## PHYSICS SCIENCE PAPER I

### Question 1

- (a) When a body is placed on a table top, it exerts a force equal to its weight downwards on the table top but does not move or fall.



- (i) Name the force exerted by the table top. [2]  
 (ii) What is the direction of the force? [2]
- (b) (i) Name one factor that affects the lateral displacement of light as it passes through a rectangular glass slab. [2]  
 (ii) On reversing the direction of the current in a wire, the magnetic field produced by it gets -----, [2]
- (c) (i) On what factor does the position of the centre of gravity of a body depend? [2]  
 (ii) What is the S.I unit of the moment of force? [2]
- (d) Name the factors affecting the turning effect of a body. [2]
- (e) (i) Define equilibrium. [2]  
 (ii) In a beam balance when the beam is balanced in a horizontal position, it is in \_\_\_\_\_ equilibrium. [2]

### Examiners' Comments

- (a) (i) Most candidates answered correctly, however some named the force incorrectly as force applied or force due to friction.  
 (ii) Many candidates simply wrote the direction to be upward rather than stating it to be vertically upward.  
 (b) Most candidates answered it correctly though some wrote changed instead of reversed for direction.

### Suggestions for teachers

- The topic on centre of gravity should be explained by giving a variety of examples so that students understand that even bodies of same volumes or same mass can still have different positions of centre of gravity.

# Physics 10 Years Question Paper

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## **Table of Contents Physics 10 Years Question Paper**

1. Understanding the eBook Physics 10 Years Question Paper
  - The Rise of Digital Reading Physics 10 Years Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics 10 Years Question 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 Physics 10 Years Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 10 Years Question Paper
  - Personalized Recommendations
  - Physics 10 Years Question Paper User Reviews and Ratings
  - Physics 10 Years Question Paper and Bestseller Lists
5. Accessing Physics 10 Years Question Paper Free and Paid eBooks
  - Physics 10 Years Question Paper Public Domain eBooks
  - Physics 10 Years Question Paper eBook Subscription Services
  - Physics 10 Years Question Paper Budget-Friendly Options

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