

ICSE Class 10 Physics Question Paper Solution 2018

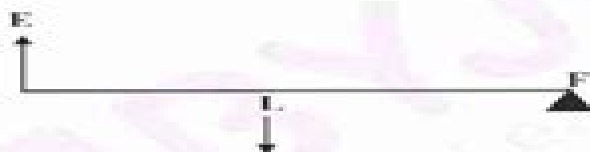
PHYSICS (PAPER-1)

SECTION I (40 Marks)

Attempt all questions from this Section

Question 1

- (a) (i) State and define the S.I. unit of power. [2]
(ii) How is the unit horse power related to the S.I. unit of power?
- (b) State the energy changes in the following cases while in use: [2]
(i) An electric iron.
(ii) A ceiling fan.
- (c) The diagram below shows a lever in use: [2]



- (i) To which class of levers does it belong?
- (ii) Without changing the dimensions of the lever, if the load is shifted towards the fulcrum what happens to the mechanical advantage of the lever?
- (d) (i) Why is the ratio of the velocities of light of wavelengths $4000\text{\AA}$ and $8000\text{\AA}$ in vacuum 1:1? [2]
(ii) Which of the above wavelengths has a higher frequency?
- (e) (i) Why is the motion of a body moving with a constant speed around a circular path said to be accelerated? [2]
(ii) Name the unit of physical quantity obtained by the formula $\frac{2K}{V^2}$.
Where K: kinetic energy, V: Linear velocity.

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Table of Contents 14 Grade12 Physical Science June Question Paper

1. Understanding the eBook 14 Grade12 Physical Science June Question Paper
 - The Rise of Digital Reading 14 Grade12 Physical Science June Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Grade12 Physical Science June 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 14 Grade12 Physical Science June Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Grade12 Physical Science June Question Paper
 - Personalized Recommendations
 - 14 Grade12 Physical Science June Question Paper User Reviews and Ratings
 - 14 Grade12 Physical Science June Question Paper and Bestseller Lists
5. Accessing 14 Grade12 Physical Science June Question Paper Free and Paid eBooks
 - 14 Grade12 Physical Science June Question Paper Public Domain eBooks
 - 14 Grade12 Physical Science June Question Paper eBook Subscription Services
 - 14 Grade12 Physical Science June Question Paper Budget-Friendly Options
6. Navigating 14 Grade12 Physical Science June Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 Grade12 Physical Science June Question Paper Compatibility with Devices
 - 14 Grade12 Physical Science June Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Grade12 Physical Science June Question Paper
 - Highlighting and Note-Taking 14 Grade12 Physical Science June Question Paper
 - Interactive Elements 14 Grade12 Physical Science June Question Paper
8. Staying Engaged with 14 Grade12 Physical Science June Question Paper

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 14 Grade12 Physical Science June Question Paper
- 9. Balancing eBooks and Physical Books 14 Grade12 Physical Science June Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Grade12 Physical Science June Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Grade12 Physical Science June Question Paper
 - Setting Reading Goals 14 Grade12 Physical Science June Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Grade12 Physical Science June Question Paper
 - Fact-Checking eBook Content of 14 Grade12 Physical Science June 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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