

ICSE Class 10 Physics Question Paper Solution 2018

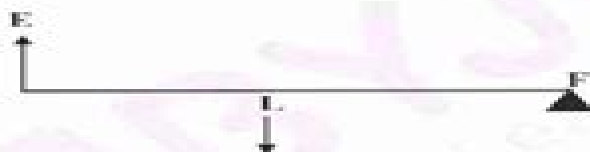
PHYSICS (PAPER-1)

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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D Keegan



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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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