

UNIT TEST

STD : 11 (SCIENCE STREAM)

SUB : PHYSICS (054)

TIME : 1 : 00 HOUR

MARKS : 25

Section A

- Do as directed. Question no. 1 to 7. [Each carries 1 Mark]

[07]

- A body is falling freely under the action of gravity alone in vacuum. Which of the following quantities remain constant during the fall ?
(A) Kinetic energy (B) Potential energy
(C) Total mechanical energy (D) Total linear momentum
- A body is initially at rest. It undergoes one-dimensional motion with constant acceleration. The power delivered to it at time t is proportional to
(A) $t^{\frac{1}{2}}$ (B) t (C) $t^{\frac{3}{2}}$ (D) t^2
- The potential energy of a satellite is -8×10^9 J, then what is its binding energy ?
- Mention dimensional formula of $\left(\frac{G}{g}\right)$
- If the resultant external force is zero then $a_{cm} = \dots\dots$ and $v_{cm} = \dots\dots$
- If $|\vec{A} \times \vec{B}| = |\vec{A} \cdot \vec{B}|$ then angle between \vec{A} and \vec{B} is $\dots\dots$
- If torque acting on a rigid body is zero, then angular momentum will remain constant. True / False

Section B

- Write any 02 (two) answers from the question no. 8 to 10 given below. [Each carries 2 mark] [04]

- Derive the work energy theorem for a variable force exerted on a body in one dimension.
- Derive an expressions for the kinetic energy on an inclined plane of inclination θ for the body rolling without sliding.
- Derive the equation for variation of g due to height from the surface of earth.

Section C

- Write any 03 (three) answers from the question no. 11 to 15 given below. [Each carries 3 mark] [09]

- A rain drop of radius 2 mm falls from a height of 500 m above the ground. It falls with decreasing acceleration (due to viscous resistance of the air) until at half its original height, it attains its maximum (terminal) speed, and moves with uniform speed thereafter. What is the work done by the gravitational force on the drop in the first and second half of its journey ? What is the work done by the resistive force in the entire journey if its speed on reaching the ground is 10 ms^{-1} ?
- Explain the torque acting on a particle.
- The angular speed of a motor wheel is increased from 1200 rpm to 3120 rpm in 16 seconds. (i) What is its angular acceleration, assuming the acceleration to be uniform? (ii) How many revolutions does the engine make during this time ?
- Obtain an equation of orbital time-period of a satellite revolves around the earth.

Grade 11 Physcs Paper2 Questions

**Carl Raymond Woodward, Charles
Alpheus Bennett, Lewis Alvin
Kalbach, National Education
Association of the United States.
Commission on the Reorganization of
Secondary Schools, Samuel Paul
Capen, United States. Bureau of
Education, William Thomas
Bawden, Alva Otis Neal**

Grade 11 Physcs Paper2 Questions:

Grade 11 Physcs Paper2 Questions Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grade 11 Physcs Paper2 Questions**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Grade 11 Physcs Paper2 Questions

1. Understanding the eBook Grade 11 Physcs Paper2 Questions
 - The Rise of Digital Reading Grade 11 Physcs Paper2 Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Physcs Paper2 Questions
 - 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 Grade 11 Physcs Paper2 Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Physcs Paper2 Questions
 - Personalized Recommendations
 - Grade 11 Physcs Paper2 Questions User Reviews and Ratings
 - Grade 11 Physcs Paper2 Questions and Bestseller Lists

5. Accessing Grade 11 Physcs Paper2 Questions Free and Paid eBooks
 - Grade 11 Physcs Paper2 Questions Public Domain eBooks
 - Grade 11 Physcs Paper2 Questions eBook Subscription Services
 - Grade 11 Physcs Paper2 Questions Budget-Friendly Options
6. Navigating Grade 11 Physcs Paper2 Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 11 Physcs Paper2 Questions Compatibility with Devices
 - Grade 11 Physcs Paper2 Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 11 Physcs Paper2 Questions
 - Highlighting and Note-Taking Grade 11 Physcs Paper2 Questions
 - Interactive Elements Grade 11 Physcs Paper2 Questions
8. Staying Engaged with Grade 11 Physcs Paper2 Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 11 Physcs Paper2 Questions
9. Balancing eBooks and Physical Books Grade 11 Physcs Paper2 Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 11 Physcs Paper2 Questions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 11 Physcs Paper2 Questions
 - Setting Reading Goals Grade 11 Physcs Paper2 Questions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 11 Physcs Paper2 Questions
 - Fact-Checking eBook Content of Grade 11 Physcs Paper2 Questions
 - 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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