

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]

1. 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
2. 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
3. The potential energy of a satellite is -8×10^9 J, then what is its binding energy ?
4. Mention dimensional formula of $\left(\frac{G}{g}\right)$
5. If the resultant external force is zero then $a_{cm} = \dots\dots$ and $v_{cm} = \dots\dots$
6. If $|\vec{A} \times \vec{B}| = |\vec{A} \cdot \vec{B}|$ then angle between $\vec{A}$ and $\vec{B}$ is $\dots\dots$
7. 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]

8. Derive the work energy theorem for a variable force exerted on a body in one dimension.
9. Derive an expressions for the kinetic energy on an inclined plane of inclination θ for the body rolling without sliding.
10. 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]

11. 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} ?
12. Explain the torque acting on a particle.
13. 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 ?
14. Obtain an equation of orbital time-period of a satellite revolves around the earth.

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Table of Contents Scope For Paper Physics Grade 11

1. Understanding the eBook Scope For Paper Physics Grade 11
 - The Rise of Digital Reading Scope For Paper Physics Grade 11
 - Advantages of eBooks Over Traditional Books
2. Identifying Scope For Paper Physics Grade 11
 - 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 Scope For Paper Physics Grade 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scope For Paper Physics Grade 11
 - Personalized Recommendations
 - Scope For Paper Physics Grade 11 User Reviews and Ratings
 - Scope For Paper Physics Grade 11 and Bestseller Lists
5. Accessing Scope For Paper Physics Grade 11 Free and Paid eBooks
 - Scope For Paper Physics Grade 11 Public Domain eBooks
 - Scope For Paper Physics Grade 11 eBook Subscription Services
 - Scope For Paper Physics Grade 11 Budget-Friendly Options
6. Navigating Scope For Paper Physics Grade 11 eBook Formats

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