

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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1. Understanding the eBook Grade 11 Physics Paper 2 November Examples 2014
 - The Rise of Digital Reading Grade 11 Physics Paper 2 November Examples 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Physics Paper 2 November Examples 2014
 - 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 Physics Paper 2 November Examples 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Physics Paper 2 November Examples 2014
 - Personalized Recommendations
 - Grade 11 Physics Paper 2 November Examples 2014 User Reviews and Ratings
 - Grade 11 Physics Paper 2 November Examples 2014 and Bestseller Lists
5. Accessing Grade 11 Physics Paper 2 November Examples 2014 Free and Paid eBooks
 - Grade 11 Physics Paper 2 November Examples 2014 Public Domain eBooks
 - Grade 11 Physics Paper 2 November Examples 2014 eBook Subscription Services
 - Grade 11 Physics Paper 2 November Examples 2014 Budget-Friendly Options

6. Navigating Grade 11 Physics Paper 2 November Examples 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 11 Physics Paper 2 November Examples 2014 Compatibility with Devices
 - Grade 11 Physics Paper 2 November Examples 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 11 Physics Paper 2 November Examples 2014
 - Highlighting and Note-Taking Grade 11 Physics Paper 2 November Examples 2014
 - Interactive Elements Grade 11 Physics Paper 2 November Examples 2014
8. Staying Engaged with Grade 11 Physics Paper 2 November Examples 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 11 Physics Paper 2 November Examples 2014
9. Balancing eBooks and Physical Books Grade 11 Physics Paper 2 November Examples 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 11 Physics Paper 2 November Examples 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 11 Physics Paper 2 November Examples 2014
 - Setting Reading Goals Grade 11 Physics Paper 2 November Examples 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 11 Physics Paper 2 November Examples 2014
 - Fact-Checking eBook Content of Grade 11 Physics Paper 2 November Examples 2014
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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