

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.

2014 Physics Paper 2 Grade 11

Oswaal Editorial Board



2014 Physics Paper 2 Grade 11:

2014 Physics Paper 2 Grade 11: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. 2014 Physics Paper 2 Grade 11 : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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