

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.

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TD Snyder



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Miriam a freshman Calculus student at Louisiana State University made 37 5% on her first exam but 83% and 93% on the next two Matt a first year General Chemistry student at the University of Utah scored 65% and 55% on his first two exams and 95% on his third These are representative of thousands of students who decisively improved their grades by acting on the advice described in this book What is preventing your students from performing according to expectations Saundra McGuire offers a simple but profound answer If you teach students how to learn and give them simple straightforward strategies to use they can significantly increase their learning and performance For over a decade Saundra McGuire has been acclaimed for her presentations and workshops on metacognition and student learning because the tools and strategies she shares have enabled faculty to facilitate dramatic improvements in student learning and success This book encapsulates the model and ideas she has developed in the past fifteen years ideas that are being adopted by an increasing number of faculty with considerable effect The methods she proposes do not require restructuring courses or an inordinate amount of time to teach They can often be accomplished in a single session transforming students from memorizers and regurgitators to students who begin to think critically and take responsibility for their own learning Saundra McGuire takes the reader sequentially through the ideas and strategies that students need to understand and implement First she demonstrates how introducing students to metacognition and Bloom s Taxonomy reveals to them the importance of understanding how they learn and provides the lens through which they can view learning activities and measure their intellectual growth Next she presents a specific study system that can quickly empower students to maximize their learning Then she addresses the importance of dealing with emotion attitudes and motivation by suggesting ways to change students mindsets about ability and by providing a range of strategies to boost motivation and learning finally she offers guidance to faculty on partnering with campus learning centers She pays particular attention to academically unprepared students noting that the strategies she offers for this particular population are equally beneficial for all students While stressing that there are many ways to teach effectively and that readers can be flexible in picking and choosing among the strategies she presents Saundra McGuire offers the reader a step by step process for delivering the key messages of the book to students in as little as 50

minutes Free online supplements provide three slide sets and a sample video lecture This book is written primarily for faculty but will be equally useful for TAs tutors and learning center professionals For readers with no background in education or cognitive psychology the book avoids jargon and esoteric theory **School & Society** James McKeen Cattell,Raymond Walters,1916 **British Medical Journal** ,1911 *Report of the Committee of Council on Education in Scotland* Great Britain. Scottish Education Dept,1927

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