

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.

Grade 11 June Physics Paper 2

JG Myers



Grade 11 June Physics Paper 2:

Bailey's index to 'The Times'. Nancy Bailey, 1901 **The Amateur Hour** Jonathan Zimmerman, 2020-10-27 The first full length history of college teaching in the United States from the nineteenth century to the present this book sheds new light on the ongoing tension between the modern scholarly ideal scientific objective and dispassionate and the inevitably subjective nature of day to day instruction American college teaching is in crisis or so we are told But we ve heard that complaint for the past 150 years as critics have denounced the poor quality of instruction in undergraduate classrooms Students daydream in gigantic lecture halls while a professor drones on or they meet with a teaching assistant for an hour of aimless discussion The modern university does not reward teaching so faculty members at every level neglect it in favor of research and publication In the first book length history of American college teaching Jonathan Zimmerman confirms but also contradicts these perennial complaints Drawing upon a wide range of previously unexamined sources *The Amateur Hour* shows how generations of undergraduates indicted the weak instruction they received But Zimmerman also chronicles institutional efforts to improve it especially by making teaching more personal As higher education grew into a gigantic industry he writes American colleges and universities introduced small group activities and other reforms designed to counter the anonymity of mass instruction They also experimented with new technologies like television and computers which promised to personalize teaching by tailoring it to the individual interests and abilities of each student But Zimmerman reveals the emphasis on the personal inhibited the professionalization of college teaching which remains ultimately an amateur enterprise The more that Americans treated teaching as a highly personal endeavor dependent on the idiosyncrasies of the instructor the less they could develop shared standards for it Nor have they rigorously documented college instruction a highly public activity which has taken place mostly in private Pushing open the classroom door *The Amateur Hour* illuminates American college teaching and frames a fresh case for restoring intimate learning communities especially for America s least privileged students Anyone who wants to change college teaching will have to start here

Resources in Education ,1998 Palmers' Index to the Times Newspaper ,1901 Manitoba School Journal ,1949 *Industrial Engineering and the Engineering Digest* ,1909 Contains each month an Index to current technical literature **Annual General Report of the Department** Ireland. Department of Agriculture and Technical Instruction, 1911 **Engineering Journal** ,1919 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924 The Journal of the Engineering Institute of Canada Engineering Institute of Canada, 1919 The Engineering Digest Harwood Frost, Charles MacCaughey Sames, 1909 Each number includes section The technical press index **SDEA Journal** South Dakota Education Association, 1929 *International Aerospace Abstracts* ,1996 Daily Graphic Elvis D. Aryeh, 1997-05-26 **Moderator-topics** ,1909 The American School Board Journal William George Bruce, William Conrad Bruce, Susanna Cocroft, 1918 A periodical of school administration **Michigan School Moderator** ,1908

Journal of Education ,1884

Who's who in America ,1924

Creating Stellar Lessons with Digital Tools

Kenneth J. Luterbach,2022-05-12 Creating Stellar Lessons with Digital Tools prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service and in service teachers with seven paths to creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches

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