

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.

Scope For Paper Physics Grade 11

RC Schank



Scope For Paper Physics Grade 11:

Science for All Americans F. James Rutherford, Andrew Ahlgren, 1991-02-14 In order to compete in the modern world any society today must rank education in science mathematics and technology as one of its highest priorities It s a sad but true fact however that most Americans are not scientifically literate International studies of educational performance reveal that U S students consistently rank near the bottom in science and mathematics The latest study of the National Assessment of Educational Progress has found that despite some small gains recently the average performance of seventeen year olds in 1986 remained substantially lower than it had been in 1969 As the world approaches the twenty first century American schools when it comes to the advancement of scientific knowledge seem to be stuck in the Victorian age In **Science for All Americans** F James Rutherford and Andrew Ahlgren brilliantly tackle this devastating problem Based on Project 2061 a scientific literacy initiative sponsored by the American Association for the Advancement of Science this wide ranging important volume explores what constitutes scientific literacy in a modern society the knowledge skills and attitudes all students should acquire from their total school experience from kindergarten through high school and what steps this country must take to begin reforming its system of education in science mathematics and technology **Science for All Americans** describes the scientifically literate person as one who knows that science mathematics and technology are interdependent enterprises with strengths and limitations who understands key concepts and principles of science who recognizes both the diversity and unity of the natural world and who uses scientific knowledge and scientific ways of thinking for personal and social purposes Its recommendations for educational reform downplay traditional subject categories and instead highlight the connections between them It also emphasizes ideas and thinking skills over the memorization of specialized vocabulary For instance basic scientific literacy means knowing that the chief function of living cells is assembling protein molecules according to the instructions coded in DNA molecules but does not mean necessarily knowing the terms ribosome or deoxyribonucleic acid Science mathematics and technology will be at the center of the radical changes in the nature of human existence that will occur during the next life span therefore preparing today s children for tomorrow s world must entail a solid education in these areas **Science for All Americans** will help pave the way for the necessary reforms in America s schools

Research in Education ,1973 [Resources in Education](#) ,1999-04 *Paper Technology and Industry* ,1977 *Manitoba School Journal* ,1952 *Paper Trade Journal* ,1919 **Paper and Timber** ,2007 **Data India** ,1977 **Journal of the Patent Office Society** Patent Office Society (U.S.),1919 *Nuclear Science Abstracts* ,1975-08 **Sessional Papers of the Dominion of Canada** Canada. Parliament,1921 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement **Patent and Trade Mark Review** ,1920 **11th International Symposium on Process Systems Engineering - PSE2012** Iftekhar A Karimi,Rajagopalan Srinivasan,2012-09-09 While the PSE community continues its focus on understanding synthesizing

modeling designing simulating analyzing diagnosing operating controlling managing and optimizing a host of chemical and related industries using the systems approach the boundaries of PSE research have expanded considerably over the years While early PSE research was largely concerned with individual units and plants the current research spans wide ranges of scales in size molecules to processing units to plants to global multinational enterprises to global supply chain networks biological cells to ecological webs and time instantaneous molecular interactions to months of plant operation to years of strategic planning The changes and challenges brought about by increasing globalization and the the common global issues of energy sustainability and environment provide the motivation for the theme of PSE2012 Process Systems Engineering and Decision Support for the Flat World Each theme includes an invited chapter based on the plenary presentation by an eminent academic or industrial researcher Reports on the state of the art advances in the various fields of process systems engineering Addresses common global problems and the research being done to solve them

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