

## 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  $-8 \times 10^9$  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  $\theta$  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  $10 \text{ ms}^{-1}$  ?
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.

# Scope Of Paper Physics Grade 11

**James Champlin Fernald**



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ceptancerateandshortpapersaddanother13      *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      **The Gas Engineer**, 1912      English Mechanic and Mirror of Science and Art, 1922      *The office standard dictionary of the English language, abridged from Funk & Wagnalls Standard dictionary, by J.C. Fernald [and] F.A. March* James Champlin Fernald, 1902      *A Standard Dictionary of the English Language ...* Funk & Wagnalls Company, 1915      *Data India*, 1977      *Books for Children*, 1968      **Scientific American**, 1879      *Students' Edition of a Standard Dictionary of the English Language ...* James Champlin Fernald, 1907      **Hajnal Andr ka and István N meti on Unity of Science** Judit Madarász, Gergely Székely, 2021-05-31 This book features more than 20 papers that celebrate the work of Hajnal Andr ka and István N meti It illustrates an interaction between developing and applying mathematical logic The papers offer new results as well as surveys in areas influenced by these two outstanding researchers They also provide details on the after life of some of their initiatives Computer science connects the papers in the first part of the book The second part concentrates on algebraic logic It features a range of papers that hint at the intricate many way connections between logic algebra and geometry The third part explores novel applications of logic in relativity theory philosophy of logic philosophy of physics and spacetime and methodology of science They include such exciting subjects as time travelling in emergent spacetime The short autobiographies of Hajnal Andr ka and István N meti at the end of the book describe an adventurous journey from

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