

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.

Grade 1physics Paper 2 Final Exam 2014

Siddappa N.Byrareddy



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well as information on faculty research Comprehensive directories list programs in this volume as well as others in the graduate series **The administration of examinations for 15-19 year olds in England** Great Britain: Parliament: House of Commons: Education Committee, 2012-07-03 This report from the Education Committee looks at the administration of examinations for 15 19 year olds in England The Committee expresses serious concerns about incentives in the exam system and about competition on syllabus content Incentives in the system should be changed so the downward pressure through the competition of exam boards is mitigated The Committee considers a number of options to change incentives including i A single board This offers a simpler system with no risk of competition but the Committee believes the cost risk and disruption outweigh the benefits ii Franchising of subjects to exam boards This removes syllabus competition but again has downsides 3 Or the current system of multiple boards The Committee sees no benefit in competition on syllabus content but the setting and marking of exams and associated administration if properly regulated could generate incentives and drive quality up offering value for money to schools and colleges The Committee also recommends the development of national syllabuses accredited by Ofqual The syllabuses would be developed by exam boards in conjunction with learned bodies and employer organisations and could therefore retain the benefits of competition on quality and the incentive for exam boards to innovate

Graduate Programs in the Biological/Biomed Sciences & Health-Related/Med Prof 2015 (Grad 3)

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weaves stories of his travels around Europe Africa the Middle East the USA Chile Baku Kazakhstan and Singapore and finally ending up in Saudi Arabia where he joins a small junior mining company Written to give his descendants an idea of what he did with his life Allan's book will appeal to those interested in travelling exotic lands history and biographies **Graduate Programs in Business, Education, Information Studies, Law & Social Work 2015 (Grad 6)** Peterson's, 2014-12-30 Graduate Programs in Business Education Information Studies Law Social Work 2015 contains helpful facts and figures on more than 11 000 graduate programs The comprehensive directory includes more than 1 850 institutions and their programs in all of the relevant disciplines such as accounting and finance business management education law library and information sciences marketing social work and many more Informative data profiles feature facts and figures on accreditation degree requirements application deadlines contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate program school or department as well as information on faculty research Comprehensive directories list programs in this volume as well as others in the graduate series *El-Hi Textbooks in Print* ,1982 Digital Video for Teacher Education Brendan Calandra, Peter J. Rich, 2014-08-07 Digital video use is becoming prevalent in teacher education as a tool to help improve teaching and learning and for assessing effective teaching Timely and comprehensive this volume brings together top scholars from multiple disciplines to provide sound theoretical frameworks research based support and clear practical advice on a variety of unique approaches to using digital video in teacher education programs Part I deals with the use of video for teacher learning Part II focuses on the role played by those other than teachers in the effective use of digital video in teacher education programs Part III addresses how to administer video for teacher education Exploring the complexities of effectively and appropriately integrating digital video into teacher development at various stages this book is a must have resource for scholars and professionals in the field **The Times Index** ,2012 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement Peterson's Guide to Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work 1997 Peterson's, 1996-12-15 This guide contains listings for the most popular professions covering over 13 000 programs in advertising allied health business dentistry education health administration human resources development law medicine nursing optometry pharmacy podiatry public health social work veterinary medicine and more **Universities Handbook** ,2014 **Newspaper Index: Los Angeles Times** ,1975 **Los Angeles Times** ,1975 **Physical Science** ,1981

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