

Sample Physics 130-1 Placement Exam

A. Multiple Choice Questions:

1. A cable is used to take construction equipment from the ground to the top of a tall building. During the trip up, when (if ever) is the tension in the cable less than the weight of the equipment?

- at the beginning of the trip, when the equipment is first moving upward from the ground
- during the middle part of the trip, when the equipment is moving upward with constant speed
- at the end of the trip, when the equipment is slowing to come to a halt.
- The tension is never less than the weight of the equipment.

2. A boy whirls a stone in a horizontal circle above his head by means of a long string. As the stone moves, the force of tension in the string does work that is:

- positive
- negative
- zero

3. A kid stands at the left edge of a uniform sled of length L , which is stationary on frictionless ice. The sled and kid have equal masses. The kid walks to the right edge of the sled and the sled slides on the ice. Afterwards, how far and in what direction is the center of the sled from the center of mass of the sled-kid system?

- $L/8$, to the left
- $L/8$, to the right
- $L/2$, to the left
- $L/2$, to the right
- none of the above

4. A block slides down inclined plane #1. A ball rolls down inclined plane #2. Inclined plane #1 is identical to inclined plane #2 (same height & slope) except that inclined plane #1 is frictionless and inclined plane #2 is not. The block and the ball have the same mass and both start from the top of their inclined planes. Which object is moving faster (has greater translational speed) at the bottom of its incline?

- the block
- the ball
- The block & the ball have the same speed

5. A man stands on a platform that is rotating (without friction) with an angular speed of ω_0 . His arms are outstretched and he holds a brick in each hand. The man then pulls his arms in and holds the bricks close to his body. As he does this, how does the angular speed ω of the platform change?

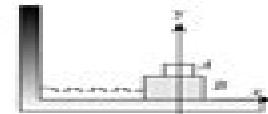
- ω_0 increases
- ω_0 decreases
- ω_0 stays the same

6. A small block A sits on a large block B which rests on top of a frictionless table. Although there is no friction between block B and the table, there is more/less friction between block A and block B . Initially, the spring is at rest and block B is at the origin of an x - y coordinate system, with the x -axis running along the table. We then pull the block to the right and let it go. As the system undergoes simple harmonic motion with amplitude x_{max} , block A is on the verge of slipping over B . When is slippage most likely?

- at $x = 0$
- at $x = x_{\text{max}}$
- somewhere between $x = 0$ & $x = x_{\text{max}}$
- equally likely at all points

7. If several cans of different sizes and shapes are all filled with the same liquid to the same depth, then:

- the weight of the liquid is the same for all cans.
- the force of the liquid on the bottom of each can is the same.
- the least pressure is at the bottom of the can with the largest bottom area.
- the greatest pressure is at the bottom of the can with the largest bottom area.
- the pressure on the bottom of each can is the same.



Ccsf Placement Test Sample Physics

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Chinese Science Education in the 21st Century: Policy, Practice, and Research Ling L. Liang,Xiufeng Liu,Gavin W. Fulmer,2016-08-16 This book provides an overview of science education policies research and practices in mainland China with specific examples of the most recent developments in these areas It presents an insiders report on the status of Chinese science education written primarily by native speakers with first hand experiences inside the country In addition the book features multiple sectional commentaries by experts in the field that further connect these stories to the existing science education literature outside of China This book informs the international community about the current status of Chinese science education reforms It helps readers understand one of the largest science education systems in the world which includes according to the Programme for International Student Assessment the best performing economy in the world in science math and reading Shanghai China Readers gain insight into how science education in the rest of China compares to that in Shanghai the ways Chinese science educators teachers and students achieve what has been accomplished what Chinese students and teachers actually do inside their classrooms what educational policies have been helpful in promoting student learning what lessons can be shared within the international science education community and much more This book appeals to science education researchers comparative education researchers science educators graduate students state science education leaders and officers in the international communities It also helps Chinese students and faculty of science education discover effective ways to share their science education stories with the rest of the world

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S1 to National 4 Physics Practice Question Book Anna Lee (Writer of S1 to National 4 physics practice question book),James Spence (Writer of S1 to National 4 physics practice question book),2018 Syllabus CfE and SQA Level S1 N4 Subject Physics First Teaching 2014 First Exam 2015 Masses of practice questions for every topic on the CfE and SQA

curricula A Study of an Objective Placement Examination for Sectioning College Physics Classes John Milton Willson,1931 For several years the Department of Physics of the Missouri School of Mines has practiced sectioning of its classes in general physics The aim has been to segregate in one section the students of superior ability giving them a course including both the fundamentals of physics and their applications in engineering The remainder are given a course in fundamentals without placing so much stress upon the applications Another criterion used to supplement the first year grade record is the student's score on the Iowa Placement Examinations The physics examination consists of two parts the Training Series and the Aptitude Series These examinations are administered at the first two meetings of the class in general physics the Aptitude Examination being given on the first day and the Training Examination on the succeeding day it was thought that the administration of the Iowa Examinations requiring two periods was wasteful of time It was believed that an examination could be devised which could be administered in a single period and furnish information of sufficient worth The MSM Physics Placement Examination was the result This investigation is concerned with a critical study of the examination the aims of the study are to determine the probable worth of the examination as a unit and as compared with similar examinations Introduction leaves 1 3 **Holt Science and Technology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001

Physics Sample Test Xam,2004 **Physics and Medical College Admissions Sample Test** John D. Cutnell,1998-03-01 *Physics - Ordinary Level* K. B. Gravelle,1981 Cset Physics Sample Test Xamonline,2004

Sterling Test Prep College Physics Practice Questions: Vol. 2, High Yield College Physics Questions with Detailed Explanations Sterling Test Prep,2019-02-08 This book provides over high yield physics practice questions that test your knowledge of physics topics covered in an introductory physics college course It contains eight topical practice question chapters so you can selectively work with the topic you want to study and master as well as three diagnostic tests to help you identify the topics you are not well prepared for In this book you will also find answer keys and detailed explanations with step by step solutions for quantitative questions and detailed explanations for conceptual questions These explanations include the foundations and details of important science topics needed to answer related questions on your physics exams By reading these explanations carefully and understanding how they apply to solve the question you will learn important physical concepts and the relationships between them This will prepare you for your physics test and you will significantly increase your grade **Physics C (Electricity and Magnetism)** Jack Rudman,National Learning Corporation,2002-01-01

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