

GRADE 11 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.6) on your folio paper. Example 1.7, D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A. Mass of X is greater than mass of Y.
B. Acceleration of X is greater than acceleration of Y.
C. Mass of Y is greater than mass of X.
D. The slope of X is greater than the slope of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A person moving at a constant speed.
B. When the net force acting on an object is constant and not equal to zero.
C. A person accelerating from rest to a higher speed in a very short time.
D. A person moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving in a circular path at a constant speed.
B. An object moving at a constant velocity in a straight line above the ground.
C. An object moving in a circular path with a constant speed in a vertical circle.
D. An object accelerating downwards with a constant acceleration of 9.8 m/s^2 .
- 1.4 The inertia of an object ...
- A. It is a scalar quantity.
B. It depends on the speed of the object in the direction of motion.
C. It is the tendency of an object to resist a change in its state of motion.
D. It depends on the mass of the object and the force applied.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (F_g) on the

surface of the Earth?

- A. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The friction force is greater than 100N.
B. The friction force is less than 100N.
C. The normal force is less than 100N.
D. None of the above.

[14]

QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 Draw the free-body diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Horizontal components of P and Q respectively. (4)
2.2.2 Vertical components of P and Q respectively. (4)
2.2.3 Resultant of the horizontal components. (5)
2.2.4 Resultant of the vertical components. (5)
2.2.5 Resultant force (magnitude and direction) acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

Physical Science 14 March Paper

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Physical Science 14 March Paper:

Chemical News and Journal of Physical Science ,1892 **Science, Cold War and the American State** Allan A. Needell,2013-02-01 This book illuminates how Berkner became a model that produced the scientist advisor policymaker that helped build post war America It does so by providing a detailed account of the personal and professional beliefs of one of the most influential figures in the American scientific community a figure that helped define the political and social climates that existed in the United States during the Cold War *Scientific Papers of Arthur Holly Compton* Arthur Holly Compton,1973-12 Arthur Holly Compton was one of the great leaders in physics of the twentieth century In this volume Robert S Shankland who was once a student of Compton s has collected and edited the most important of Professor Compton s papers on X rays the field of his greatest achievement and on other related topics Compton entered the field of X ray research in 1913 and carried on active work until the 1930s when he began to specialize in cosmic rays During the years when Compton was an active leader in X ray research he made many notable contributions which are reflected in the papers presented here He was the first to prove several important optical properties of X rays including scattering complete polarization and total reflection He was also the first with his student R L Doan to use ruled gratings for the production of X ray spectra Professor Compton s greatest discovery for which he was awarded a Nobel Prize in 1927 was the Compton Effect This was the outgrowth of experiments he had initiated during a year at Cambridge in 1919-20 He did the major portion of these experiments at Washington University in St Louis during the period 1920-24 His work demonstrated that in the scattering of X rays by electrons the radiation behaves like corpuscles and that the interaction between the X ray corpuscles and the electrons in the scatter is completely described by the principles of the conservation of energy and momentum for the collisions of particles In his introduction Professor Shankland gives a historical account of the papers narrates Professor Compton s early scientific career and shows how he arrived at a quantum explanation of the Compton scattering after eliminating all classical explanations **The Aberdeen University Calendar** University of Aberdeen,1927

Miscellaneous Papers Connected with Physical Science Humphrey Lloyd,1877 **Federal Register** ,2013

Chemical News and Journal of Physical Science William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1865

The Chemical News and Journal of Physical Science ,1899 *Federal Register Index* ,2010 *THE CHEMICAL NEWS AND JOURNAL OF PHYSICAL SCIENCE*. WILLIAM CROOKES, F. R. S., &c.,1880 **Helping Scientists to Communicate Well for All Considered: Strategic Science Communication in an Age of Environmental and Health Crises** Scott McWilliams,Marcia Allison,Marina Joubert,Ingrid Lofgren,Brianne Suldovsky,2022-09-16 *Calendar* University of St. Andrews,1929 **Calendar** University of Aberdeen,1929 *Resources in education* ,1988-08

Restructuring Of Physical Sciences In Europe And The United States - 1945-1960, The - Proceedings Of The International Conference Michelangelo De Maria,Mario Grilli,Fabio Sebastiani,1989-06-01 **The Edinburgh**

University Calendar University of Edinburgh,1927 **The Securitization of Climate Change: Australian and United States' Military Responses (2003 - 2013)** Michael Durant Thomas,2017-07-25 This book examines how the armed forces of the United States and Australia have responded to the threat posed by climate change to national security Drawing on established securitisation frameworks Copenhagen and Paris Schools the author uses a combination of quantitative and qualitative techniques to systematically examine more than 3 500 speeches policies and doctrinal articles since 2003 Importantly the author undertakes an examination of the intersection between the political and the military spheres probing the question of how ideology has influenced the military s uptake on the issue In this context the author identifies the difficulty of an ostensibly apolitical institution responding to what has become both a hyper political issue and an unprecedented security threat A close examination of the key political actors their intent outlook and political mandate for broader climate action is therefore crucial to understanding the policy freedom and constraints within which military leaders operate The book consists of eight chapters divided into four parts focusing on perspectives and methodological insights empirical case studies case study comparison and concluding observations Offers a rare and systematic examination of military climate policy by a military officer from Australia Identifies a divergence of Australian military climate policy from that of the US military during the Obama Administration Develops a unique method that quantifies climate security enabling a graphical representation for quick and ready reference ideally suited to policy makers Parliamentary Papers Great Britain. Parliament. House of Commons,1906 The Electrical Review ,1915 Essays on Astronomical History and Heritage Steven Gullberg,Peter Robertson,2023-08-14 This multidisciplinary work celebrates Wayne Orchiston s career and accomplishments in historical and cultural astronomy on the occasion of his 80th birthday Over thirty of the world s leading scholars in astronomy astrophysics astronomical history and cultural astronomy have come together to honor Wayne across a wide range of research topics These themes include Astronomy and Society Emergence of Astrophysics History of Radio Astronomy Solar System Observatories and Instrumentation Ethnoastronomy and Archeoastronomy This exceptional collection of essays presents an overview of Wayne s prolific contributions to the field along with detailed accounts of the book s diverse themes It is a valuable and insightful volume for both researchers and others interested in the fields of historical astronomy and cultural astronomy

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