



GRADE 11 PHYSICAL SCIENCE 5 MARK TEST

QUESTION 1

Various options are provided for possible answers to the following questions. Choose the correct answer and enter (A), (B), (C) or (D) next to the QUESTION NUMBER (1-10) on your final paper. Example: 1. D

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



Select one of the following statements is true?

- A. $m_Q < m_P$ and $a_Q < a_P$
 - B. $m_Q < m_P$ and $a_Q > a_P$
 - C. $m_Q > m_P$ and $a_Q < a_P$
 - D. $m_Q > m_P$ and $a_Q > a_P$
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
- A. A truck moving at a constant speed.
 - B. A car moving from rest to a higher speed.
 - C. A ball falling from a height of 10 m.
 - D. A car accelerating from rest to a higher speed.
- 1.3 Select all the statements below that describe the acceleration?
- A. An object moving with constant velocity.
 - B. An object moving with constant velocity.
 - C. An object moving with constant velocity.
 - D. An object moving with constant velocity.
- 1.4 The inertia of an object...
- A. Is directly proportional to its mass.
 - B. Is directly proportional to its velocity.
 - C. Is directly proportional to its acceleration.
 - D. Is directly proportional to its displacement.
- 1.5 An object has a weight W_1 on Earth. Calculate, in terms of the value of the Earth's g , all the values for the weight is a 1/4 of this weight (W_2) on the

surface of the Earth?

- A. 1
 - B. 2
 - C. 1/4
 - D. 1/2
- 1.6 A box is pulled forward with a force of 100 N but does not move. A possible reason for this is that:
- A. The applied force is too small.
 - B. The applied force is equal to the weight.
 - C. The applied force is too small.
 - D. The applied force is too small.

[10]

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 The bucket is stationary.
- 2.2 The tension in rope P is 120 N at an angle of 30° to the vertical and the tension in Q is 70 N at 45° to the vertical.



Calculate the RESULTANT of the

- 2.2.1 Resultant of the two ropes. [4]
 - 2.2.2 Resultant of the two ropes. [4]
 - 2.2.3 Resultant of the horizontal components. [5]
 - 2.2.4 Resultant of the vertical components. [5]
 - 2.2.5 Resultant of the two ropes. [5]
- 2.3 Calculate the weight of the bucket. [5]

[19]

Physical Science Grade 11 March 2013 Memo

S. Grussendorff



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World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada David A. Jaffray, 2015-07-13 This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics a tri annual high level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare It provides a unique and important forum to secure a coordinated multileveled global response to the need demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health

Ploughshares and Swords Jayita Sarkar, 2022-07-15 India's nuclear program is often misunderstood as an inward looking endeavor of secretive technocrats In Ploughshares and Swords Jayita Sarkar challenges this received wisdom narrating a global story of India's nuclear program during its first forty years The book foregrounds the program's civilian and military features by probing its close relationship with the space program Through nuclear and space technologies India's leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries The politically savvy transnationally connected scientists and engineers who steered the program obtained technologies materials and information through a variety of state and nonstate actors from Europe and North America including both superpowers They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home The nuclear program became a consensus enforcing device in the name of the nation Ploughshares and Swords is a provocative new history with global implications It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization Thanks to generous funding from the Swiss National Science Foundation the ebook editions of this book are available as Open Access volumes from Cornell Open cornellpress.cornell.edu/cornell-open and other repositories

Federal Register, 2013-09 **Redefining Geek** Cassidy Puckett, 2022-04-20 A surprising and deeply researched look at how everyone can develop tech fluency by focusing on five easily developed learning habits Picture a typical computer geek Likely white male and someone you'd say has a natural instinct for technology Yet after six years teaching technology classes to first generation low income middle school students in Oakland California Cassidy Puckett has seen firsthand that being good with technology is not something people are born with it's something they learn In Redefining Geek she overturns the stereotypes around the digitally savvy and identifies the habits that can help everyone cultivate their inner geek Drawing on observations and interviews with a diverse group of students around the country Puckett zeroes in on five technology learning habits that enable tech savvy teens to learn new technologies a willingness to try and fail management of frustration and boredom use of models and the abilities to use design logic and identify efficiencies In Redefining Geek she shows how to

measure and build these habits and she demonstrates how many teens historically marginalized in STEM are already using these habits and would benefit from recognition for their talent access to further learning opportunities and support in career pathways She argues that if we can develop recognize and reward these technological learning habits in all kids especially girls and historically marginalized racial and ethnic groups we can address many educational inequities and disparities in STEM Revealing how being good with technology is not about natural ability but habit and persistence Redefining Geek speaks to the ongoing conversation on equity in technology education and argues for a more inclusive technology learning experience for all students *Captive Audience* Catherine Gidney,2019-04-02 White Spot a popular BC restaurant chain solicits hamburger concepts from third and fourth grade students and one of the student s ideas becomes a feature on the kids menu Home Depot donates playground equipment to an elementary school and the ribbon cutting ceremony culminates in a community swathed in corporate swag temporary tattoos and a new Home Depot song written by a teacher and sung by the children Kindergarten students return home with a school district prescribed dental hygiene flyer featuring a maze leading to a tube of Crest toothpaste Schools receive five cents for each flyer handed to a student While commercialism has existed in our schools for over a century the corporate invasion of our schools reached unprecedented heights in the 1990s and 2000s after two decades of federal funding cuts and an increasing tendency to apply business models to the education system Constant cutbacks have left school trustees administrators teachers and parents with difficult decisions about how to finance programs and support students Meanwhile studies on the impact of advertising and consumer culture on children make clear that the effects are harmful both to the individual child and the broader culture *Captive Audience* explores this compelling history of branding the classroom in Canada Official Gazette Philippines,2013

Investigating Light and Shadow with Young Children (Ages 3-8) Beth Dykstra Van Meeteren,2022-06-17 Children are intrigued by switches that power a light source and by items that reflect light and sparkle and they take notice of personal shadows cast on the playground An understanding of light and shadow is crucial to many STEM fields including astronomy biology engineering architecture and more This book shows teachers how to engage children ages 3 8 with light and shadow in a playful way building an early foundation for the later more complex study of this phenomena and ultimately for children s interest in professions within the STEM fields The text offers guidance for arranging the physical environment of classrooms integrating literacy learning and investigations and building partnerships with administrators Each volume in the STEM for Our Youngest Learners Series includes examples of educators and children engaging in inquiry learning guidance for selecting materials and arranging the learning environment modifications and accommodations for diverse learners support for establishing adult learning communities and more **75 Years Aloft: Royal Australian Air Force Air Training Corps: Australian Air Force Cadets, 1941-2016** Matthew Glozier,2015-12-30 This book celebrates 75 years of Air Force cadet activity in Australia 1941 2016 The organisation has had a tremendous impact upon the lives of tens of thousands of

Australians over our 75 year history Since 1982 it has enhanced the lives of young women as well as men The book begins in WWII with the need to pre train capable and committed keen lads Over 30 000 Australian boys were air cadets 1941 1945 with almost 13 000 going on to active service in the war Air Force cadets survived into peacetime to become an aviation focussed youth development organisation providing flying training in a military atmosphere with the aim of inspiring cadets to join the RAAF There are currently over 8 000 Air Force cadets and adult staff around Australia Aviation centred youth development in a RAAF service environment remains our central focus **Psychology in Everyday Life** David G. Myers,2014-01-20 David Myers briefest introduction to psychology speaks to all students regardless of their background or level of preparedness with no assumptions made in the vocabulary examples or presentation Students of all kinds are comfortable with Myers manageable chapters which include careful connections to associated visuals comparative tables and research based pedagogy For this edition there is something completely new to a Myers text David Myers personally selected new coauthor Nathan DeWall s enthusiasm for teaching and writing about psychological science makes him uniquely suited to join the worlds bestselling psychology textbook author And with about 30 more pages of coverage this edition has become an even stronger and more complete introduction to the science of psychology for courses of all kinds *Engineering News-record* ,1893 Spot on Physical Sciences M. Elfrink,2008 Everything Science , **Physical Science** ,2009 *Physical Sciences* Santie Du Plessis,2015 Physical Science ,2008 Physical Sciences ,2013 Physical Science , *Physical Sciences* S. Grussendorff,2017 *Focus on Physical Science* , Physical Sciences in a Nutshell Marion Mann,Renee Smith,2000

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