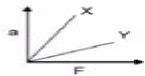


#### **GRADE 11 PHYSICAL SCIENCES MARCH TEST**

#### 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 X has a greater mass.
- B The bodies have equal mass.
- C Y has a greater mass.
- D The mass would not affect the gradient of the graph.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.
  - A An object moving with constant acceleration.
  - B When the only force acting on the object is gravitational acceleration.
  - C An object that undergoes equal displacements every second.
  - D An object is moving with increasing acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
  - A An object moving at constant velocity upwards from the ground.
  - B An object moving at constant velocity downwards from the ground.
  - C An object that is accelerated upwards away from the ground by a constant applied force.
  - D An object accelerates downwards towards the Earth with an acceleration of 9.8m.s<sup>-2</sup>.
- 1.4 The inertia of an object ....
  - A is greater if its mass is smaller.
  - B increases as the applied force on the object increases.
  - C is the resistance to any change in its state of motion.
  - D increases as the frictional force on the object increases.
- 1.5 An astronaut has a weight F<sub>g</sub> on Earth. What distance, in terms of the radius of

# **March 2014 Physical Sciences Question Paper**

**Léo Pomar** 

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scientific priorities and the conclusions and recommendations of two National Research Council NRC decadal surveys New Worlds New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013 2022 as well as other NRC reports This report describes a vision for a U S OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities and near term critical coordination planning and instrumentation needed to usher in the era of LSST and giant telescopes Data Management for Researchers Kristin Briney, 2015-09-01 A comprehensive guide to everything scientists need to know about data management this book is essential for researchers who need to learn how to organize document and take care of their own data Researchers in all disciplines are faced with the challenge of managing the growing amounts of digital data that are the foundation of their research Kristin Briney offers practical advice and clearly explains policies and principles in an accessible and in depth text that will allow researchers to understand and achieve the goal of better research data management Data Management for Researchers includes sections on The data problem an introduction to the growing importance and challenges of using digital data in research Covers both the inherent problems with managing digital information as well as how the research landscape is changing to give more value to research datasets and code The data lifecycle a framework for data s place within the research process and how data s role is changing Greater emphasis on data sharing and data reuse will not only change the way we conduct research but also how we manage research data Planning for data management covers the many aspects of data management and how to put them together in a data management plan This section also includes sample data management plans Documenting your data an often overlooked part of the data management process but one that is critical to good management data without documentation are frequently unusable Organizing your data explains how to keep your data in order using organizational systems and file naming conventions This section also covers using a database to organize and analyze content Improving data analysis covers managing information through the analysis process This section starts by comparing the management of raw and analyzed data and then describes ways to make analysis easier such as spreadsheet best practices It also examines practices for research code including version control systems Managing secure and private data many researchers are dealing with data that require extra security This section outlines what data falls into this category and some of the policies that apply before addressing the best practices for keeping 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Kreuzer, 2016-05-26 This book examines the evolution of airpower and specifically the growth and proliferation of Remotely Piloted Aircraft RPAs While most existing literature examines either the law or ethics of RPAs and some newer scholarship looks to the battlefield effectiveness the gains from strikes versus the potential for blowback etc this work investigates it from a broader military perspective It examines the strategy for employment of RPAs across the spectrum of warfare the potential deterrent value of RPAs in some circumstances and the resulting ability of RPAs to fundamentally shift the character of when and how wars are fought The central aim of this book is to evaluate the role of drones in warfare to date and make basic projections on how states will adopt RPAs and UCAVs in the future At the core is the goal of answering a broad underlying research question How will the RPA innovation impact military strategy and international security This book will be of much interest to students of airpower drone warfare military and strategic studies security studies and IR

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The Carbon Crunch Dieter Helm, 2015-01-01 In a new edition of his hard hitting book on climate change economist Dieter Helm looks at how and why we have failed to tackle the issue of global warming and argues for a new pragmatic rethinking of energy policy An optimistically levelheaded book about actually dealing with global warming Kirkus Reviews starred review Dieter Helm has turned his agile mind to one of the great problems of our age why the world's efforts to curb the carbon dioxide emissions behind global warming have gone so wrong and how it can do better Pilita Clark Financial Times Canadian Journal of Physics, 2015 Journal of the Physical Society of Japan, 2015 Energy Research Abstracts, 1980 Soviet Physics, 1978-07 The Aeroplane, 1918 Soviet Physics, Solid State, 1989

McGraw-Hill Education MCAT Behavioral and Social Sciences & Critical Analysis 2016 Cross-Platform Edition George J. Hademenos, 2016-01-08 Expert Preparation for the Revised MCAT in Print Online and Mobile Totally geared to the brand new test introduced in 2015 this book offers concise summaries of all important concepts textbook quality scientific diagrams and abundant practice questions The unique Cross Platform format adds outstanding value students can study the whole program in print online or on a mobile device About the Book This volume of McGraw Hill Education's four book MCAT test prep series covers the behavioral and social science topics and critical reasoning skills that MCAT candidates need to master Chapters are organized around the Foundational Concepts specified in the MCAT syllabus Each unit ends with a Minitest in MCAT format to give students ample practice with MCAT style questions Closely follows the MCAT syllabus created for the all new 2015 test EXPANDED Practice with MCAT style questions on every topic Textbook quality illustrations to enhance understanding Focuses tightly on topics tested on the MCAT About the Cross Platform format The Cross Platform format provides a fully comprehensive print online and mobile program Entire instructional content available in print and digital form Personalized study plan and daily goals Powerful analytics to assess test readiness Flashcards games and social media for additional support About the Authors George Hademenos Ph D is Assistant Professor at the University of Dallas where he teaches General Physics and Quantum Physics He has also taught at the University of Massachusetts and at UCLA Candice McCloskey Campbell Ph D is Assistant Professor of Chemistry at Georgia Perimeter College Dunwoody GA Shaun Murphree Ph D is Assistant Professor of Chemistry at Allegheny College Meadville PA Jennifer M Warner Ph D teaches biology at the University of North Carolina Charlotte Amy B Wachholz Ph D is Director of Health Psychology at UMass Medical School Worcester MA Kathy A Zahler MS is a widely published test prep author Soviet Physics, Crystallography, 1976

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