

## 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 car moving with a constant speed.  
B. A ball falling from the sky to the ground with a constant acceleration.  
C. A car moving with a constant speed in a straight line.  
D. A car moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.  
B. An object is moving at a constant velocity in a straight line.  
C. An object is not experiencing any forces other than the gravity of the Earth.  
D. An object is moving with a constant speed in a straight line.
- 1.4 The inertia of an object...
- A. is a measure of its mass.  
B. is a measure of its speed.  
C. is a measure of its acceleration.  
D. is a measure of its momentum.
- 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.  $r$   
B.  $2r$   
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 box is too heavy.  
B. The box is too light.  
C. The box is too big.  
D. The box is too small.

[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 force diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of  $30^\circ$  to the vertical and the tension in Q is 51,52N at  $45^\circ$  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 of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

# Physical Sciences Paper March 2014

**Gustaf Olsson**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## **Physical Sciences Paper March 2014:**

**Physics Unsolved Papers** YCT Expert Team , 2023 24 12th Class CBSE NIOS ISC UP Board Physics Unsolved Papers 360 695 E     Communication Technology Update and Fundamentals August E. Grant,Jennifer H. Meadows,2016-11-03 Communication Technology Update and Fundamentals has set the standard as the single best resource for students and professionals looking to brush up on how communication technologies have developed grown and converged as well as what s in store for the future The 15th edition is completely updated reflecting the changes that have swept the communication industries The first five chapters offer the communication technology fundamentals including the ecosystem the history and structure then delves into each of about two dozen technologies including mass media computers consumer electronics and networking technologies Each chapter is written by experts who provide snapshots of the state of each individual field Together these updates provide a broad overview of these industries as well as the role communication technologies play in our everyday lives In addition to substantial updates to each chapter the 15th edition includes First ever chapters on Big Data and the Internet of Things Updated user data in every chapter Projections of what each technology will become by 2031 Suggestions on how to get a job working with the technologies discussed The companion website [www.tfi.com.ctu](http://www.tfi.com.ctu) offers updated information on the technologies covered in this text as well as links to other resources     Applied Chemistry and Physics Robert A. Burke,2020-12-17 Written by a hazardous materials consultant with over 40 years of experience in emergency services the five volume Hazmatology The Science of Hazardous Materials suggests a new approach dealing with the most common aspects of hazardous materials containers and the affected environment It focuses on innovations in decontamination monitoring instruments and personal protective equipment in a scientific way utilizing common sense and takes a risk benefit approach to hazardous material response This set provides the reader with a hazardous materials Tool Box and a guide for learning which tools to use under what circumstances Dealing with hazardous materials incidents cannot be accomplished effectively and safely without knowing the effects these materials have Volume Three Applied Chemistry and Physics is not about teaching chemistry and physics It is about presenting these topics at the level that emergency responders will understand so they can apply the concepts using a risk management system FEATURES Uses a scientific approach utilizing analysis of previous incidents Offers a risk benefit approach based upon science and history Provides understanding tools for your Hazmat Tool Box Simplifies physical and chemical characteristics Utilizes chemistry and physics to identify hazards to responders     **Transactions on Engineering Technologies** Gi-Chul Yang,Sio-Iong Ao,Xu Huang,Oscar Castillo,2014-12-30 This volume contains revised and extended research articles written by prominent researchers who participated in the international conference on Advances in Engineering Technologies which was held in Hong Kong 12 14 March 2014 Topics covered include engineering physics engineering mathematics scientific computing control theory artificial intelligence electrical engineering communications systems and industrial applications The book

offers the state of art of tremendous advances in engineering technologies and physical science and applications and also serves as an excellent reference work for researchers and graduate students working with on engineering technologies and physical science and applications

**Happiness By Numbers** Richard Lupo, 2023-02-23 Imagine if there was a way to measure your impact on the environment and manage how it affects your happiness What if you could be sure that everything that matters in your life was on track to maximise your feelings of fulfilment and contentment In *Happiness By Numbers* chartered environmentalist Richard Lupo draws on decades of expert research to provide you with a very neat science based framework that shows how your decisions and actions affect your environment while measuring your progress towards achieving long term wellbeing From your own personal happiness to the wellbeing of your family and friends as well as your impact on the planet as a whole you ll discover how with a clear vision an effective strategy a dash of proven science and some very clever number crunching you can make every part of your life happier and more rewarding Take an eye opening journey into happiness and the environment that will change how you think and feel about what they mean and uncover A blueprint for boosting your own long term wellbeing Fascinating insights into the science behind what makes us happy Practical tips for creating safe and secure environments for all A roadmap towards better decisions on sustainability and living a net zero life How happiness really looks when you put in into numbers If it s true that you can only manage what you can measure by exploring and leveraging what science and data reveals about what makes us happy we can all build a better world that s happier not only for ourselves but those around us too

**Technological Innovation in Legacy Sectors** William Bonvillian, Charles Weiss, 2015 The American economy misses opportunities for innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors

**The Routledge Atlas of South Asian Affairs** Robert W. Bradnock, 2015-10-14 South Asia has developed from a group of newly independent post Colonial states of at most secondary importance to the wider world to its current position as a region of central strategic importance to both global economic development and world peace and stability This Atlas highlights the global significance of South Asia in relation to economic geopolitical and strategic interests It provides a coherent descriptive and analytical account of the key elements of the complex societies that make up the region and its component countries Illustrated with more than 100 original maps and offering concise entries on key issues the book is structured thematically in these sections Global Context Geographical Environments Historical Evolution of South Asia Key Issues in modern South Asia Economy and Security Designed for use in teaching undergraduate and graduate classes and seminars in geography history economics anthropology international relations political science and the environment as well as regional courses on the South Asia this book is also a comprehensive reference source for libraries and decision makers focusing on South Asia

*Drones and the Future of Air*

*Warfare* Michael P. 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

*Deciphering Reality* Benjamin B. Olshin, 2017-09-25 In *Deciphering Reality Simulations Tests and Designs* Benjamin B Olshin takes a problem based approach to the question of the nature of reality In a series of essays the book examines the detection of computer simulations from the inside wrestles with the problem of visual models of reality explores Daoist conceptions of reality and offers possible future directions for deciphering reality The ultimate goal of the book is to provide a more accessible approach unlike highly complex philosophical works on metaphysics which are inaccessible to non academic readers and overly abstract and at times highly speculative popular works that offer a m range of physics philosophy and consciousness

*Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem* Kathleen Buse, Catherine Hill, Romila Singh, 2018-06-21 Understanding the many complexities that define gender inequality has been described by researchers as a grand challenge Novel insights innovation a broader community to conduct research and to ascertain effective interventions are essential in the challenge to create organizations that are gender equal As such this Research Topic in *Frontiers in Psychology* addresses the under representation of women in engineering and computing as a complex but solvable problem This Research Topic seeks to inform the global community about advances in understanding the under representation of women in engineering and computing with a focus on what enables change Further this Topic will promote fresh perspectives innovative methodologies and mixed method approaches important to accelerating the pace of change

***Creating China's Climate Change Policy*** Olivia Gippner, 2020-02-28 Drawing on first hand interview data with experts and government officials Olivia Gippner develops a new analytical framework to explore the vested interests and policy debates surrounding Chinese climate policy making

***Education and Sustainability*** Michelle Merrill, Patricia Burkhardt-Holm, Chew-Hung Chang, Md Saidul Islam, Youngho Chang, 2017-09-13 This book provides an introduction to the state of sustainability education in Asia It covers national policies institutional policies and practices within Asian universities sustainability considerations for teacher training at schools of education and pedagogical practices for sustainability in higher education With contributors from universities

and NGOs in Indonesia Singapore Malaysia Thailand the Philippines Cambodia India China and South Korea this volume brings together the best papers from a series of successful international conferences on post secondary education for sustainability in Asia The book is organized into five parts Part I focuses on paradigms for sustainability education Part II looks at sustainability education contexts strategies and outcomes at the national level Part III gives examples of sustainability programs and strategies adopted at specific universities Part IV highlights sustainability education research from schools of education Part V explores specific examples of post secondary educational practices in sustainability

**Frontiers in Physics - 2019 Editor's Choice** Alex Hansen, Thomas Beyer, Ewald Moser, Laura Elisa Marcucci, Ralf Metzler, Christian F. Klingenberg, James Sauls, José W. F. Valle, Jan De Boer, Dumitru Baleanu, Lorenzo Pavesi, Bretislav Friedrich, Christine Charles, Matjaž Perc, Jasper Van Der Gucht, 2020-05-19 Frontiers in Physics FPHY is now in its eighth year Up to last year the journal received a slowly increasing trickle of manuscripts and then during the summer Boom The number of manuscripts we receive started increasing exponentially This is of course a signal to us who are associated with the journal that we are on the right track to build a first rate journal spanning the entire field of physics And it is not the only signal We also see it in other indicators such as the number of views and downloads Impact Factor and the Cite Score Should we be surprised at this increase If I were to describe FPHY in one word it would be innovation Attaching the names of the reviewers that have endorsed publication permanently to the published paper is certainly in this class It ensures that the reviewers are accountable furthermore the level of transparency this implies ensures that any conflict of interest is detected at the very beginning of the process The review process itself is innovative After an initial review that proceeds traditionally the reviewers and authors enter a back and forth dialog that irons out any misunderstanding The reviewers retain their anonymity throughout the process The entire review process and any question concerning editorial decisions is fully in the hands of active scientists The Frontiers staff is not allowed to make any such decision They oversee the process and make sure that the manuscript and the process leading to publication or rejection upholds the standard FPHY is of course a gold open access journal This is the only scientific publication model that is compatible with the information revolution A journal's prestige is traditionally associated with how difficult it is to publish there Exclusivity as criterion for desirability is a mechanism we know very well from the consumer market However is this criterion appropriate for scientific publishing It is almost by definition not possible to predict the importance of a new idea otherwise it would not have been new So why should journals make decisions on publishing based on predicting the possible importance of a given work This can only be properly assessed after publication Frontiers has removed importance from the list of criteria for publication That the work is new is another matter the work must be new and scientifically correct It would seem that removing the criterion of importance would be a risky one but it turns out not to be The Specialty Chief Editors who lead the 18 sections that constitute FPHY have made this selection of papers published in FPHY in 2019 We have chosen the papers that we have

found most striking Even though this is far from a random selection they do give a good idea of what PFHY is about Enjoy We certainly did while making this selection Professor Alex Hansen Field Chief Editor Water and Energy Gustaf Olsson, 2015-06-14 Rapid and important developments in the area of energy water nexus over the last two to three years have been significant This new edition of Water and Energy Threats and Opportunities is timely and continues to highlight the inextricable link between water and energy providing an up to date overview of the subject with helpful detailed summaries of the technical literature Water and Energy has been up dated throughout and major changes are new chapters on global warming and fossil fuels including shale gas and fracking the consequences of the Deepwater Horizon accident in the Mexican Gulf and the Niger Delta oil spills new developments in hydropower and continued competition between food water and energy Water and Energy Threats and Opportunities 2e creates an awareness of the important couplings between water and energy It shows how energy is used in all the various water cycle operations and demonstrates how water is used and misused in all kinds of energy production and generation Population increase climate change and an increasing competition between food and fuel production create enormous pressures on both water and energy availability Since there is no replacement for water water security looks more crucial than energy security This is true not only in developing countries but also in the most advanced countries For example the western parts of the USA suffer from water scarcity that provides a real security threat Part One of the book describes the water energy nexus the conflicts and competitions and the couplings between water security energy security and food security Part Two captures how climate change population increase and the growing food demand will have major impact on water availability in many countries in the world Part Three describes water for energy and how energy production and conversion depend on water availability As a consequence all planning has to take both water and energy into consideration The environmental including water consequences of oil and coal exploration and refining are huge in North America as well as in the rest of the world Furthermore oil leak accidents have hit America Africa Europe as well as Asia The consequences of hydropower are discussed and the competition between hydropower generation flood control and water storage is illustrated The importance of water for cooling thermal power plants is described as this was so tragically demonstrated at the Fukushima nuclear plants in 2011 Climate change will further emphasize the strong coupling between water availability and the operation of power plants Part Four analyses energy for water how water production and treatment depend on energy The book shows that a lot can be done to improve equipment develop processes and apply advanced monitoring and control to save energy for water operations Significant amounts of energy can be saved by better pumping the reduction of leakages controlled aeration in biological wastewater treatment more efficient biogas production and by improved desalination processes There are 3 PowerPoint presentations available for Water and Energy threats and opportunities 2e About the author Gustaf Olsson Professor Em in Industrial Automation Lund University Sweden Since 2006 Gustaf has been Professor Emeritus at Lund University Sweden Gustaf has devoted his research to control and

automation in water systems electrical power systems and process industries From 2006 to 2008 he was part time professor in electrical power systems at Chalmers University of Technology Sweden He is guest professor at the Technical University of Malaysia UTM and at the Tsinghua University in Beijing China and he is an honorary faculty member of the Exeter University in UK Between 2005 and 2010 he was the editor in chief of the journals Water Science and Technology and Water Science and Technology Water Supply IWA Publishing From 2007 to 2010 he was a member of the IWA Board of Directors and in 2010 he received the IWA Publication Award In 2012 he was the awardee of an Honorary Doctor degree at UTM and an Honorary Membership of IWA Gustaf has guided 23 PhDs and a few hundred MSc students through their exams and has received the Lund University pedagogical award for distinguished achievements in the education The Lund University engineering students elected him as the teacher of the year He has spent extended periods as a guest professor and visiting researcher at universities and companies in the USA Australia and Japan and has been invited as a guest lecturer in 19 countries outside Sweden He has authored nine books published in English Russian German and Chinese and contributed with chapters in another 19 books as well as more than 170 scientific publications *International Handbook on Responsible Innovation* René von Schomberg, Jonathan Hankins, 2019 The Handbook constitutes a global resource for the fast growing interdisciplinary research and policy communities addressing the challenge of driving innovation towards socially desirable outcomes This book brings together well known authors from the US Europe and Asia who develop conceptual and regional perspectives on responsible innovation as well as exploring the prospects for further implementation of responsible innovation in emerging technological practices ranging from agriculture and medicine to nanotechnology and robotics The emphasis is on the socio economic and normative dimensions of innovation including issues of social risk and sustainability

**The New ABCs of Research** Ben Shneiderman, 2016 This book is a guide for junior researchers and a manifesto for senior researchers and policy makers about how to update policies to respond to the immense challenges of our times The guiding principles are to combine applied and basic research in ways that use the methods of science engineering and design

*Climate Change and People on the Move* Fanny Thornton, 2018-10-24 This book applies a justice framework to analysis of the actual and potential role of international law with respect to people on the move in the context of anthropogenic climate change That people are affected by the impacts of climate change is no longer doubted including with implications for people movement migration displacement relocation etc Climate Change and People on the Move tackles unique questions concerning international responsibility for people movement arising from the inequities inherent to climate change Corrective and distributive justice provide the analytical backbone and are explored in a substantial theoretical chapter and then applied to subsequent contextual analysis Corrective justice supports analysis as to whether people movement in the climate change context could be conceived or framed as harm loss or damage which is compensable under international law either through fault centred regimes or no fault regimes i e insurance Distributive justice supports analysis as to whether



such movement could be conceived or framed as a disproportionate burden either for those faced with movement or those faced with sheltering people on the move from which duties of re distribution may stem This book contributes to the growing scholarship and analysis concerning international law or governance and people movement in response to the impacts of climate change by investigating the bounds of the law where the phenomenon is viewed as one of in justice *Sustaining Human Progress* Khalid Malik,2014 Most people in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives Chemical News and Journal of Physical Science ,1870 **People Forced to Flee** United Nations High Commissioner for Refugees,2022-02-16 People in danger have received protection in communities beyond their own from the earliest times of recorded history The causes war conflict violence persecution natural disasters and climate change are as familiar to readers of the news as to students of the past It is 70 years since nations in the wake of World War II drew up the landmark 1951 Convention relating to the Status of Refugees *People Forced to Flee* marks this milestone It is the latest in a long line of publications stretching back to 1993 that were previously entitled *The State of the World's Refugees* The book traces the historic path that led to the 1951 Convention showing how history was made by taking the centuries old ideals of safety and solutions for refugees to global practice It maps its progress during which international protection has reached a much broader group of people than initially envisaged It examines international responses to forced displacement within borders as well as beyond them and the protection principles that apply to both It reviews where they have been used with consistency and success and where they have not At times the strength and resolve of the international community seems strong yet solutions and meaningful solidarity are often elusive Taking stock today at this important anniversary is all the more crucial as the world faces increasing forced displacement Most is experienced in low and middle income countries and persists for generations People forced to flee face barriers to improving their lives contributing to the communities in which they live and realizing solutions Everywhere an effective response depends on the commitment to international cooperation set down in the 1951 Convention a vision often compromised by efforts to minimize responsibilities There is growing recognition that doing better is a global imperative Humanitarian and development action has the potential to be transformational especially when grounded in the local context *People Forced to Flee* examines how and where increased development investments in education health and economic inclusion are helping to improve socioeconomic opportunities both for forcibly displaced persons and their hosts In 2018 the international community reached a Global Compact on Refugees for more equitable and sustainable responses It is receiving deeper support *People Forced to Flee* looks at whether that is enough for what could and should help define the next 70 years

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