



GRADE 10 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and enter ONLY the LETTER (A-D) next to the QUESTION NUMBER (q1.1-q1.5) on your Rulipaper. Example: q1.1. D

- 1.1 A positively charged object has:
A. an attraction to metal only.
B. an attraction to all matter.
C. an attraction to all liquids.
D. an attraction to all metals.
- 1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?
A. The longest.
B. The shortest.
C. The middle.
D. The same.
- 1.3 In which ONE of the following do sound waves travel the FASTEST?
A. Vacuum.
B. Air.
C. Oil.
D. Water.
- 1.4 The SI unit for charge is the ...
A. Coulomb.
B. Volt.
C. Ampere.
D. Joule.
- 1.5 The relationship between voltage and work done is:
A. Inverse.
B. Inversely proportional.
C. Directly proportional.
D. Inversely proportional.

[10]

QUESTION 2

Below is a representation of two waves consisting of continuous pulses. Study carefully and answer the questions that follow.



- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For wave Q:
2.4.1 What is the magnitude of its wavelength in metres? (1)
2.4.2 What is the frequency of the pulse? (1)
2.4.3 What is the wave speed? (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
2.5.1 What happens to wave P's amplitude? (2)
2.5.2 What happens to wave Q's amplitude? (2)

[14]

QUESTION 3

- 3.1 The diagram below shows different parts on a longitudinal wave.



- 3.1.1 What is the name of the part labeled C?

(1)

Physical Science Paper 2014 March

Michael Brown



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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

Media Art and the Urban Environment Francis T. Marchese, 2015-04-01 This text formally appraises the innovative ways new media artists engage urban ecology Highlighting the role of artists as agents of technological change the work reviews new modes of seeing representing and connecting within the urban setting The book describes how technology can be exploited in order to create artworks that transcend the technology's original purpose thus expanding the language of environmental engagement whilst also demonstrating a clear understanding of the societal issues and values being addressed Features assesses how data from smart cities may be used to create artworks that can recast residents understanding of urban space examines transformations of urban space through the reimagining of urban information discusses the engagement of urban residents with street art including collaborative community art projects and public digital media installations presents perspectives from a diverse range of practicing artists architects urban planners and critical theorists

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

The Role of Laboratory Work in Improving Physics Teaching and Learning Dagmara Sokołowska, Marisa Michelini, 2018-11-03 This book explores in detail the role of laboratory work in physics teaching and learning Compelling recent research work is presented on the value of experimentation in the learning process with description of important research based proposals on how to achieve improvements in both teaching and learning The book comprises a rigorously chosen selection of papers from a conference organized by the International Research Group on Physics Teaching GIREP an organization that promotes enhancement of the quality of physics teaching and learning at all educational levels and in all contexts The topics covered are wide ranging Examples include the roles of open inquiry experiments and advanced lab experiments the value of computer modeling in physics teaching the use of web based interactive video activities and smartphones in the lab the effectiveness of low cost experiments and assessment for learning through experimentation The presented research based proposals will be of interest to all who seek to improve physics teaching and learning

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1. Understanding the eBook Physical Science Paper 2014 March
 - The Rise of Digital Reading Physical Science Paper 2014 March
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper 2014 March
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science Paper 2014 March
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper 2014 March
 - Personalized Recommendations
 - Physical Science Paper 2014 March User Reviews and Ratings
 - Physical Science Paper 2014 March and Bestseller Lists
5. Accessing Physical Science Paper 2014 March Free and Paid eBooks
 - Physical Science Paper 2014 March Public Domain eBooks
 - Physical Science Paper 2014 March eBook Subscription Services
 - Physical Science Paper 2014 March Budget-Friendly Options

6. Navigating Physical Science Paper 2014 March eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Paper 2014 March Compatibility with Devices
 - Physical Science Paper 2014 March Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper 2014 March
 - Highlighting and Note-Taking Physical Science Paper 2014 March
 - Interactive Elements Physical Science Paper 2014 March
8. Staying Engaged with Physical Science Paper 2014 March
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper 2014 March
9. Balancing eBooks and Physical Books Physical Science Paper 2014 March
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper 2014 March
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Paper 2014 March
 - Setting Reading Goals Physical Science Paper 2014 March
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Paper 2014 March
 - Fact-Checking eBook Content of Physical Science Paper 2014 March
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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