

GRADE 10 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 (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
- Excess electrons
 - A deficiency of electrons
 - An excess of protons
 - A deficiency of protons
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
- Gamma rays
 - Ultraviolet
 - Micro waves
 - Radio waves
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
- Vacuum
 - Water
 - Air
 - Steel
- 1.4 The SI unit for charge is the ...
- Coulomb
 - Volt
 - Ampere
 - Ohm
- 1.5 The relationship between voltage and work done is:
- Inversely proportional
 - Directly proportional
 - Inversely proportional squared
 - Directly proportional squared

[10]

QUESTION 2

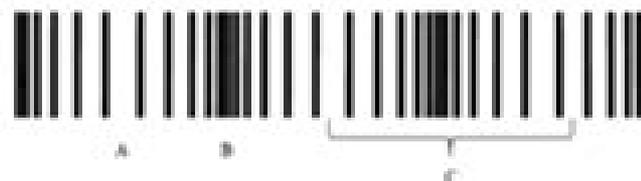
Below is a representation of two waves consisting of continuous pulses. Study it carefully and answer the questions that follow.



- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE** or **LONGITUDINAL**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For wave Q:
- What is the magnitude of its wavelength in metres? (1)
 - What is the frequency of the wave? (1)
 - Calculate the wave speed. (3)
- 2.5 If the waves were sent towards each other and allowed to collide:
- What would be the amplitude of the wave? (2)
 - What would be the wave speed? (2)
- [16]

QUESTION 3

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



- 3.1.1 P is the crest of A. Q is the ... (2)

(2)

Physical Sciences Question Paper Of March 2014

J Elliott



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Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System National Research Council,Division on Engineering and Physical Sciences,Board on Physics and Astronomy,Committee on a Strategy to Optimize the U.S. Optical and Infrared System in the Era of the Large Synoptic Survey Telescope (LSST),2015-06-26 New astronomical facilities such as the under construction Large Synoptic Survey Telescope and planned 30 meter class telescopes and new instrumentation on existing optical and infrared OIR telescopes hold the promise of groundbreaking research and discovery How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants Optimizing the U S Ground Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the 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

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

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

The Comprehensive Guide to Science and Faith William A. Dembski, Casey Luskin, Joseph M. Holden, 2021-10-05 Science and Faith Can and Do Support Each Other Science and Christianity are often presented as opposites when in fact the order of the universe and the complexity of life powerfully testify to intelligent design With this comprehensive resource that includes the latest research you ll witness how the findings of scientists provide compelling reasons to acknowledge the mind and presence of a creator Featuring more than 45 entries by top caliber experts you ll better understand how scientific concepts like intelligent design are supported by evidence the scientific findings that support the history and accounts found in the Bible the biases that lead to scientific information being presented as a challenge rather than a complement to Christianity Whether you re looking for answers to your own questions or seeking to explain the case for intelligent design to others The Comprehensive Guide to Science and Faith is an invaluable apologetic tool that will help you explore and analyze the relevant facts research and theories in light of biblical truth

Using Formative Assessment to Enhance Learning, Achievement, and Academic Self-Regulation Heidi L. Andrade, Margaret Heritage, 2017-07-20 There is convincing evidence that carefully applied classroom assessments can promote student learning and academic self regulation These assessments include but are not limited to conversations with students diagnostic test items and co created rubrics used to guide feedback for students themselves and their peers Writing with the practical constraints of teaching in mind Andrade and Heritage present a concise resource to help pre and in service teachers maximize the positive impacts of classroom assessment on teaching Using Formative Assessment to Enhance Learning Achievement and Academic Self Regulation translates work from leading specialists and explains how to use assessment to improve learning by linking learning theory to formative assessment processes Sections on goal setting progress monitoring interpreting feedback and revision of goal setting make this a timely addition to assessment courses

Canadian Journal of Physics ,2015 **Progress in Physics** ,2014 **Journal of the Physical Society of Japan** ,2015 Job interview questions and answers for employment on Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center, 2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation

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Table of Contents Physical Sciences Question Paper Of March 2014

1. Understanding the eBook Physical Sciences Question Paper Of March 2014
 - The Rise of Digital Reading Physical Sciences Question Paper Of March 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Question Paper Of March 2014
 - 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 Sciences Question Paper Of March 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Question Paper Of March 2014
 - Personalized Recommendations
 - Physical Sciences Question Paper Of March 2014 User Reviews and Ratings
 - Physical Sciences Question Paper Of March 2014 and Bestseller Lists
5. Accessing Physical Sciences Question Paper Of March 2014 Free and Paid eBooks
 - Physical Sciences Question Paper Of March 2014 Public Domain eBooks
 - Physical Sciences Question Paper Of March 2014 eBook Subscription Services
 - Physical Sciences Question Paper Of March 2014 Budget-Friendly Options
6. Navigating Physical Sciences Question Paper Of March 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Sciences Question Paper Of March 2014 Compatibility with Devices
 - Physical Sciences Question Paper Of March 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Sciences Question Paper Of March 2014
 - Highlighting and Note-Taking Physical Sciences Question Paper Of March 2014
 - Interactive Elements Physical Sciences Question Paper Of March 2014

8. Staying Engaged with Physical Sciences Question Paper Of March 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Sciences Question Paper Of March 2014
9. Balancing eBooks and Physical Books Physical Sciences Question Paper Of March 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Sciences Question Paper Of March 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Sciences Question Paper Of March 2014
 - Setting Reading Goals Physical Sciences Question Paper Of March 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Sciences Question Paper Of March 2014
 - Fact-Checking eBook Content of Physical Sciences Question Paper Of March 2014
 - 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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