

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:

- A Positive charge
- B A negative charge
- C An electric field
- D An electric current

1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?

- A Gamma
- B X-ray
- C Microwaves
- D Radio waves

1.3 In which ONE of the following do sound waves travel the FASTEST?

- A Air
- B Water
- C Glass
- D Vacuum

1.4 The SI unit for charge is the ...

- A Coulombs
- B Joules
- C Watts
- D Amperes

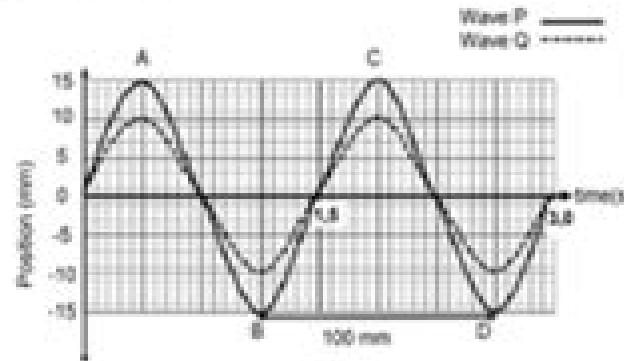
1.5 The relationship between voltage and work done is:

- A Constant
- B Directly proportional
- C Inversely proportional
- D Directly proportional to the square of the voltage

[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:

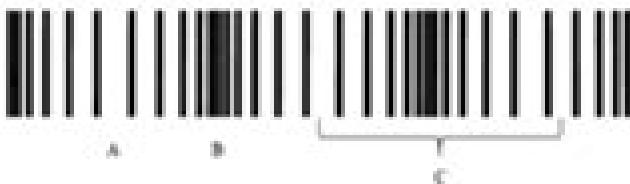
- 2.4.1 What is the magnitude of its wavelength in metres? (1)
- 2.4.2 What is the frequency of the wave? (1)
- 2.4.3 Calculate the speed of the wave. (2)

2.5 If the waves were sent towards each other and allowed to collide:

- 2.5.1 State what would happen. (2)
- 2.5.2 Calculate the resultant amplitude. (2)

QUESTION 3

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



(3)

Question Paper 2 November 2014 Physical Science

Karin Nielsen-Saines

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Urban Geology Pradeep Bhaskarao Jadhav,2025-09-26 This book presents the result of an innovative challenge to create a systematic literature overview driven by machine generated content Questions and related keywords were prepared for the machine to query discover collate and structure by Artificial Intelligence AI clustering The AI based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and multidisciplinary for example climate planetary and evolution sciences Springer Nature has published much on these topics in its journals over the years so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful The automatically generated literature summaries in this book are intended as a springboard to further discoverability They are particularly useful to readers with limited time looking to learn more about the subject quickly and especially if they are new to the topics Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey from the undergraduate student exploring interdisciplinary content to Master or PhD thesis developing research questions to the practitioner seeking support materials this book can serve as an inspiration to name a few examples It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI based author services that allow human machine interaction to generate readable usable collated research content

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

After the War

Ruth H. Howes,Caroline L. Herzenberg,2015-12-01 This book examines the lives and contributions of American women physicists who were active in the years following World War II during the middle decades of the 20th century It covers the

strategies they used to survive and thrive in a time where their gender was against them The percentage of PhD s in physics has risen for 6% in 1983 to 20% in 2012 an all time high for women By understanding the history of women in physics these gains can continue It discusses to major classes of women physicists those who worked on military projects and those who worked in industrial laboratories and at universities largely in the late 1940s and 1950s While it includes minimal discussion of physics and physicists in the 1960s and later this book focuses on the challenges and successes of women physicists in the years immediately following World War II and before the eras of affirmative actions and the use of the personal computer

Carbon Pricing Larry Kreiser,Mikael Skou Andersen,Birgitte Egelund Olsen,Stefan Speck,Janet E. Milne,2015-08-28
Carbon Pricing reflects upon and further develops the ongoing and worthwhile global debate into how to design carbon pricing as well as how to utilize the financial proceeds in the best possible way for society The world has recently witnesse

Canadian Journal of Physics ,2015 [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 [Spectral Line Shapes in Astrophysics and Related Topics](#) Milan S. Dimitrijević,Luka Č. Popović,2020-02-18 Spectral lines widths and shapes are powerful tools for emitting absorbing gas diagnostics in different astrophysical objects from the solar system to the most distant objects in the universe quasars On the other hand experimental and theoretical investigations of laboratory plasma have been applied in spectroscopic astrophysical research especially in research on atomic data needed for line shape calculations Data on spectral lines and their profiles are also important for diagnostics analysis and the modelling of fusion plasma laser produced plasma laser design and development and various plasmas in industry and technology like light sources based on plasmas or the welding and piercing of metals by laser produced plasma The papers from this book can be divided into four groups 1 stark broadening data for astrophysical and laboratory plasma investigations 2 applications of spectral lines for astrophysical and laboratory plasma research 3 spectral line phenomena in extragalactic objects and 4 laboratory astrophysics results for spectra investigation The reviews and research papers representing new research on the topics presented in this book are of interest for specialists and PhD students We hope that the present book will be useful and interesting for scientists interested in the investigation of spectral line shapes and will contribute to the education of young researchers and PhD students **Fizika tverdogo tela** ,1990

Journal of the Physical Society of Japan ,2015 **Normal Instructor and Teachers World** ,1910 *The Mining Journal, Railway and Commercial Gazette* ,1891 [Archives of Acoustics Quarterly](#) ,2018 **The Engineer** ,1906
International Aerospace Abstracts ,1997 [Abstracts for the AGU Western Pacific Geophysics Meeting](#) ,2008

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