

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. an attraction to metal objects.
 - B. a repulsion to all other metals.
 - C. an attraction to all other metals.
 - D. a repulsion to all other metals.
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
 - A. Radio waves
 - B. X-rays
 - C. Microwaves
 - D. Visible light
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
 - A. Gases
 - B. Liquids
 - C. Solids
 - D. Vacuum
- 1.4 The SI unit for charge is the ...
 - A. Coulomb
 - B. Volt
 - C. Ohm
 - D. Ampere
- 1.5 The relationship between voltage and work done is:
 - A. Current
 - B. Directly proportional
 - C. Inversely proportional
 - D. Indirectly proportional

[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**. (1)
- 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 Write down the frequency of the wave. (1)
 - 2.4.3 Calculate the speed of the wave. (3)
- 2.5 If the waves were sent towards each other and allowed to collide,
 - 2.5.1 Write down the amplitude of the wave. (2)
 - 2.5.2 Describe the wave pattern that would be formed. (2)

[10]

QUESTION 3

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



- 3.1.1 Point to which A, B and C?

(2)

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**Amanda Berry, Patricia
Friedrichsen, John Loughran**



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ICTES 2018 Robbi Rahim, Kadek Suranata, Ifdil Ifdil, Itsar Bolo Rangka, 2019-03-13 The technical program of The First ICTES 2018 consisted of 114 full papers Aside from the high quality technical paper presentations we also held workshop and clinic manuscript that was carried out before the main track aims to strengthen the ability to write scientific publications Coordination with the steering chairs Dr Kadek Suranata S Pd M Pd Kons and the members of organizing committee is essential for the success of the conference We sincerely appreciate all the Advisory Boards for the constant support and guidance It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference In particular the Scientific Committee led by Cand Dr Robbi Rahim M Kom have completed the peer review process of technical papers and made a high quality technical program We are also grateful to Students Conference chairs were leading by Ida Ayu Made Diah Paramiswari for their support and all the authors who submitted their papers to the First ICTES 2018 We strongly believe that ICTES conference provides a good forum for all academicians researchers and practitioners to discuss all

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Amanda Berry, Patricia Friedrichsen, John Loughran, 2015-03-24 Pedagogical Content Knowledge PCK has been adapted adopted and taken up in a diversity of ways in science education since the concept was introduced in the mid 1980s Now that it is so well embedded within the language of teaching and learning research and knowledge about the construct needs to be more useable and applicable to the work of science teachers especially so in these times when standards and other measures are being used to define their knowledge skills and abilities Re examining Pedagogical Content Knowledge in Science Education is organized around three themes Re examining PCK Issues ideas and development Research developments and trajectories Emerging themes in PCK research Featuring the most up to date work from leading PCK scholars in science education across the globe this volume maps where PCK has been where it is going and how it now informs and enhances knowledge of science teachers professional knowledge It illustrates how the PCK research agenda has developed and can make a difference to teachers practice and students learning of science

Occupations of Federal White-collar Workers

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Global Developments

in Literacy Research for Science Education Kok-Sing Tang, Kristina Danielsson, 2018-01-19 This book highlights recent developments in literacy research in science teaching and learning from countries such as Australia Brazil China Finland Germany Hong Kong New Zealand Norway Singapore Spain South Africa Sweden Taiwan and the United States It includes multiple topics and perspectives on the role of literacy in enhancing science teaching and learning such as the struggles faced by students in science literacy learning case studies and evaluations of classroom based interventions and the challenges encountered in the science classrooms It offers a critical and comprehensive investigation on numerous emerging themes in the area of literacy and science education including disciplinary literacy scientific literacy classroom discourse multimodality language and representations of science and content and language integrated learning CLIL The diversity of views and research contexts in this volume presents a useful introductory handbook for academics researchers and graduate students working in this specialized niche area With a wealth of instructional ideas and innovations it is also highly relevant for teachers and teacher educators seeking to improve science teaching and learning through the use of literacy

Virtual and Augmented Reality, Simulation and Serious Games for Education Yiyu Cai, Wouter van Joolingen, Koen Veermans, 2021-08-13 This book introduces state of the art research on virtual reality simulation and serious games for education and its chapters presented the best papers from the 4th Asia Europe Symposium on Simulation and Serious Games 4th AESSSG held in Turku Finland December 2018 The chapters of the book present a multi facet view on different approaches to deal with challenges that surround the uptake of educational applications of virtual reality simulations and serious games in school practices The different approaches highlight challenges and potential solutions and provide future directions for virtual reality simulation and serious games research for the design of learning material and for implementation in classrooms By doing so the book is a useful resource for both students and scholars interested in research in this field for designers of learning material and for practitioners that want to embrace virtual reality simulation and or serious games in their education

Inquiry-Based Science in the Primary Classroom Garima Bansal, Umesh Ramnarain, 2023-06-20 The chapters in this book represent a cross section of research conducted in inquiry based science education at primary levels of schooling in international contexts that include school settings in Australia India Singapore South Africa Turkey Northern Ireland and the United States The book includes empirical studies on the role of inquiry based learning in advancing students conceptual understanding and modelling proficiency students understandings about the nature of scientific inquiry classroom studies on teachers enactment of inquiry based learning teachers facilitation of classroom discourse for inquiry based learning and co teaching in developing teachers in adopting an inquiry based pedagogy It was originally published as a special issue of the journal Education 3 13

Physics of Semiconductor Devices V. K. Jain, Abhishek Verma, 2013-11-27 The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community As a result the latest findings

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[Complete Science Communication](#) Ryan C Fortenberry,2018-10-22 Science communication is a rapidly expanding area and a key component of many final year undergraduate and postgraduate courses Authored by a highly regarded chemist and science communicator this textbook pulls together all aspects of science communication Complete Science Communication focusses on four major aspects of science communication writing for non technical audiences and science journalism writing for technical audiences and peer reviewed journal writing public speaking of science and public relations It first showcases how writing in a journalistic style is done and provides a guide for colloquially communicating science Then the art of writing scientific papers is conjoined to this idea to make technical manuscripts more digestible readable and hence citable These ideas are next taken into the spoken word so that the scientist can engage in telling their science like that natural human art of campfire stories Finally all of these communication concepts are wrapped together in a discussion of public relations providing the scientist with an appreciation for the marketing directors and news disseminators with whom they will work Written in an accessible way this textbook will provide science students with an appreciative understanding of communication marketing journalism and public relations They can incorporate these aspects into their own practices as scientists allowing them to liaise with practitioners in the communication field

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text. The exercise states: In this exercise we will apply Bayes rule to Gaussians. Suppose we are a mobile robot ... (PDF) [PROBABILISTIC ROBOTICS |](#) science, where the goal is to develop robust software that enables robots to withstand the numerous challenges arising in unstructured and dynamic environments. Solutions Manual Create a map with a prison, four rectangular blocks that form walls with no gaps. Place the robot goal outside and the robot inside, or vice versa, and run the ... Probabilistic Robotics by EK Filter — Optimal solution for linear models and. Gaussian distributions. Page 4. 4. Kalman Filter Distribution. Everything is Gaussian. 1D. 3D. Courtesy: K. Arras ... Probabilistic Robotics - Sebastian Thrun.pdf We shall revisit this discussion at numerous places, where we investigate the strengths and weaknesses of specific probabilistic solutions. 1.4. Road Map ...