

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 of all objects.
 - C. an attraction of all objects.
 - D. a repulsion of all objects.
- 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 what would happen. (2)
 - 2.5.2 Describe what would happen. (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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Wenbin Ji



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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

Integrated Environmental Modelling to Solve Real World Problems A.T. Riddick, H. Kessler, J.R.A. Giles, 2017-01-10 The discipline of Integrated Environmental Modelling IEM has developed in order to solve complex environmental problems for example understanding the impacts of climate change on the physical environment IEM provides methods to fuse or link models together this in turn requires facilities to make models discoverable and also to make the outputs of modelling easily visualized The vision and challenges for IEM going forward are summarized by leading proponents Several case studies describe the application of model fusion to a range of real world problems including integrating groundwater and recharge models within the UK Environment Agency and the development of catastrophe models to predict better the impact of natural hazards Communicating modelling results to end users who are often not specialist modellers is also an emerging area of research addressed within the volume Also included are papers that highlight current developments of the technology platforms underpinning model fusion

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Canadian Journal of Physics, 2015

The Western Christian Advocate, 1909

Engineering News and American Contract Journal, 1887

Physics Briefs, 1988

The Connecticut School Journal, 1874

Journal of the Physical Society of Japan, 2017

The Publishers' Trade List Annual, 1970

The Educational Times, and Journal of the College of Preceptors, 1892

Mines and Minerals, 1890

Catalog of Government Publications in the Research Libraries New York Public Library. Economic and Public Affairs Division, New York Public Library. Research Libraries, 1972

Proceedings of the IRE., 1946

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