

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 insulators.
 - B. a repulsion to insulators.
 - C. an attraction to conductors.
 - D. a repulsion to conductors.
- 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 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 wave P. (2)
 - 2.5.2 Describe the wave shape after collision. (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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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 underrepresentation 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 underrepresentation 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 Underrepresentation of Women in Science: International and Cross-Disciplinary Evidence and Debate* Stephen J. Ceci, Wendy M. Williams, Shulamit Kahn, 2018-04-20 There is no shortage of articles and books exploring women's underrepresentation in science. Everyone is interested: academics, politicians, parents, high school girls and boys, women in search of college majors, administrators working to accommodate women's educational interests; the list goes on. But one thing often missing is an evidence-based examination of the problem, uninfluenced by personal opinions, accounts of lived experiences, anecdotes, and the always encroaching inputs of popular culture. This is why this special issue of *Frontiers in Psychology* can make a difference. In it, a diverse group of authors and researchers with even more diverse viewpoints find themselves united by their empirical, objective approaches to understanding women's underrepresentation in science today. The questions considered within this special issue span academic disciplines, methods, levels of analysis, and nature of analysis. What these articles share is their scholarly, evidence-based approach to understanding a key issue of our time. *Armed Conflict, Women and Climate Change* Jody M. Prescott, 2018-11-21 The gender-differentiated and more severe impacts of armed conflict upon women and girls are well recognised by the international community, as demonstrated by UN Security Council Resolution UNSCR 1325 on Women, Peace and Security and subsequent resolutions. Similarly, the development community has identified gender-differentiated impacts upon women and girls as a result of the effects of climate change. Current research and analysis has reached no consensus as to any causal relationship between climate change and armed conflict, but certain studies suggest an indirect linkage between climate change effects such as food insecurity and armed conflict. Little research has been conducted on the possible compounding effects that armed conflict and climate change might have on at-risk population groups such as women and girls. *Armed Conflict, Women and Climate Change* explores the intersection of these three areas and allows the reader to better understand how military organisations across the world need to be sensitive to these relationships to be most effective in civilian-centric operations in situations of humanitarian relief, peacekeeping, and even armed conflict. This book examines strategy and military doctrine from NATO, the

UK US and Australia and explores key issues such as displacement food and energy insecurity and male out migration as well as current efforts to incorporate gender considerations in military activities and operations This innovative book will be of great interest to students and scholars of international relations international development international security sustainability gender studies and law *Introduction to Teaching* Gene E. Hall,Linda F. Quinn,Donna M.

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Handbook of Religion, Politics and Ideology Jeffrey Haynes,2021-08-14 This comprehensive handbook examines relationships between religion politics and ideology with a focus on several world religions Christianity Islam Buddhism Hinduism and Judaism in a variety of contexts regions and countries Relationships between religion politics and ideology help mould people s attitudes about the way that political systems both domestically and internationally are organised and operate While conceptually separate religion politics and ideology often become intertwined and as a result their relationships evolve over time This volume brings together a number of expert contributors who explore a wide range of topical and controversial issues including gender nationalism communism fascism populism and Islamism Such topics inform the overall aim of the handbook to provide a comprehensive summary of the relationships between religion politics and ideology including basic issues and new approaches This handbook is a major research resource for students researchers and professionals from various disciplinary backgrounds including religious studies political science international relations and sociology Get Through MRCOG Part 2 Rekha Wuntakal,Madhavi Kalidindi,Tony Hollingworth,2018-03-09 Get Through MRCOG Part 2 SBAs provides 3 exams worth of questions mapped to the RCOG syllabus in the newly introduced SBA style With detailed explanations and relevant references to guidelines this is the definitive resource for those taking the MRCOG Part 2 examination Textbook of Critical Care E-Book Jean-Louis Vincent,Frederick A. Moore,Rinaldo Bellomo,John J.

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