

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**. (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 wave speed. (3)
- 2.5 If the waves were sent towards each other and allowed to collide,
 - 2.5.1 What would be the amplitude of the wave? (2)
 - 2.5.2 Describe the wave speed. (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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R Bogdan



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Australian Education Index ,1980 **Bulletin of the Atomic Scientists** ,1995-09 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

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web the last example shows us that to graph a quadratic function of the form $f(x) = x^2 + k$ $f(x) = x^2 - k$ we take the basic parabola graph of $f(x) = x^2$ $f(x) = x^2$ and vertically shift it up k 0 k 0 or shift it down k 0 k 0

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web oct 24 2011 identify the vertex (h, k) 2 choose another point on the graph (x, y) 3 plug h, k, x and y into and solve for a 4 use h, k and a to write the vertex form of the quadratic function 13 example write a quadratic function to model each graph 14 example write a quadratic function to model each graph