

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**. (3)
- 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)

[15]

QUESTION 3

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



- 3.1.1 Point to which A, B and C?

(3)

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JL Elias



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web programming an led board begins with choosing the right software and installing it on your computer there are thousands of software s exist out there some popular software includes screenly ose peaksignage yodeck screen cloud opti signs arduino each software from the above list offers different features and specifications when

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web a dot matrix led displays a 2 dimensional patterned array of leds used to represent characters symbols and images its applications include displaying characters and alphabets where low resolution is not an issue so we will display some alphabets and numbers on it led matrix introduction

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web may 29 2019 in an led board there are three basic parts led module the controller and the power supply led module more than one led modules can be connected together in order to result in a bigger display led modules are available in single color two color and full color rgb modules as well