

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:
- Excess electrons
 - A deficiency of electrons
 - An excess of protons
 - A deficiency of protons
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
- Gamma rays
 - X-rays
 - Micro waves
 - Radio waves
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
- Vacuum
 - Water
 - Air
 - Steel
- 1.4 The SI unit for charge is the ...
- Coulomb
 - Volt
 - Ampere
 - Kilowatt
- 1.5 The relationship between voltage and work done is:
- Inversely proportional
 - Directly proportional
 - Inversely proportional squared
 - Directly proportional squared

[14]

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:
- What is the magnitude of its wavelength in metres? (1)
 - What is the frequency of the wave? (1)
 - Calculate the wave speed. (3)
- 2.5 If the waves were sent towards each other and allowed to collide:
- What would be the amplitude of wave P? (2)
 - What would be the amplitude of wave Q? (2)
- [14]

QUESTION 3

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



- 3.1.1 Point B is the ... (2)

(2)

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**Vaikuntam Iyer Lakshmanan, Raja
Roy, V. Ramachandran**



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