

## 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
  - Ultraviolet
  - 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
  - Ohm
- 1.5 The relationship between voltage and work done is:
- Inversely proportional
  - Directly proportional
  - Inversely proportional squared
  - Directly proportional squared

[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:
- 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 the wave? (2)
  - What would be the wave speed? (2)
- [10]

### QUESTION 3

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



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

(2)

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**Ying-Ying Zheng**



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