

## 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 Positive charge
- B A negative charge
- C An electric field
- D An electric current

1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?

- A Gamma
- B X-ray
- C Microwaves
- D Radio waves

1.3 In which ONE of the following do sound waves travel the FASTEST?

- A Air
- B Water
- C Glass
- D Vacuum

1.4 The SI unit for charge is the ...

- A Coulombs
- B Joules
- C Watts
- D Amperes

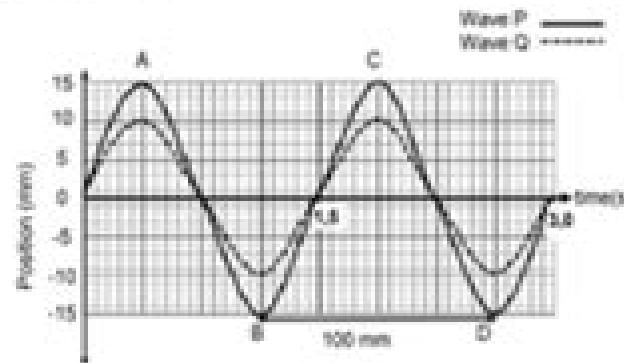
1.5 The relationship between voltage and work done is:

- A Constant
- B Directly proportional
- C Inversely proportional
- D Directly proportional to the square of the voltage

[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 magnitude of its period in seconds? (1)
- 2.4.3 What is the magnitude of its frequency? (1)

2.5 If the waves were sent towards each other and allowed to collide:

- 2.5.1 State the effect on the amplitude. (2)
- 2.5.2 Define an interference pattern. (2)

### QUESTION 3

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



3.1.1 Calculate the wavelength. (2)

(3)

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