

## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and enter ONLY the LETTER (A-D) next to the QUESTION number (1-15) on your Test paper. Example: 1A-D

1.1 A positively charged object has

- A positive charge
- B negative charge
- C zero charge
- D no charge

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

- A radio waves
- B microwaves
- C infrared
- D visible light

1.3 In which ONE of the following do sound waves have the FAIREST?

- A air
- B water
- C wood
- D metal

1.4 The SI unit for charge is the ...

- A coulombs
- B newtons
- C ohms
- D watts

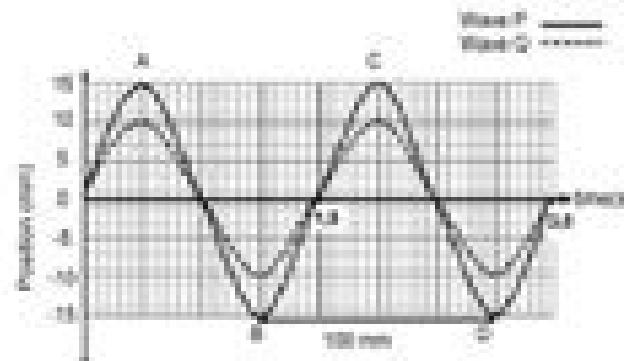
1.5 The relationship between voltage and work done is:

- A  $V = \frac{W}{Q}$
- B  $V = \frac{W}{P}$
- C  $V = \frac{W}{F}$
- D  $V = \frac{W}{m}$

(15)

### 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 21. (2)

(2)

2.3 Which one of the two waves, Wave Q, has the greatest amplitude?

(2)

2.4 For Wave Q:

- 2.4.1 What is the magnitude of its wavelength in metres?
- 2.4.2 What is the frequency of the wave?
- 2.4.3 What is the period?

(3)

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

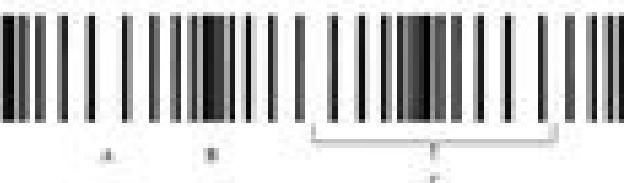
- 2.5.1 What would happen to the waves?
- 2.5.2 Explain your answer.

(2)

(2)

### QUESTION 3

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



3.1.1  $P = \frac{W}{t}$  where  $P =$  ...

(2)

# 2014 March Physical Science Question Paper Grade 10

**Michael Brown**

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