



GRADE 10 PHYSICAL SCIENCE 5 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 (1-10) on your Answer Paper. Example 10: D

1.1 A positively charged object

- A. attracts a neutral object
- B. repels a neutral object
- C. attracts a negatively charged object
- D. attracts a positively charged object

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

- A. Radio waves
- B. Gamma rays
- C. Microwaves
- D. X-rays

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

- A. Air
- B. Water
- C. Oil
- D. Glass

1.4 The SI unit for charge is the ...

- A. Volt
- B. Joule
- C. Ohm
- D. Coulomb

1.5 The relationship between voltage and work done is

- A. $V = \frac{W}{Q}$
- B. $Q = \frac{W}{V}$
- C. $W = \frac{Q}{V}$
- D. $W = \frac{V}{Q}$

[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 wave that is shown as **Wave P** and **Wave Q**.

(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 displacement in centimetres?

(2)

2.4.2 What is the wavelength in milliseconds?

(2)

2.4.3 Calculate its frequency.

(2)

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

2.5.1 What would be the resultant wavelength?

(2)

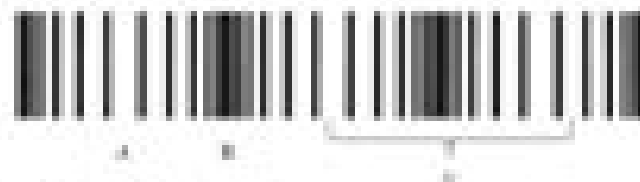
2.5.2 What would be the resultant frequency?

(2)

[10]

QUESTION 3

3.1 The diagram below shows different portions of a longitudinal wave.



3.1.1 Which section is a crest?

(1)

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Liz Thompson



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