



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 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 charged object
- D. repels a charged object

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

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

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

- A. Air
- B. Water
- C. Steel
- 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 above as TRANSVERSE wave.

(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 centimetres?

(2)

2.4.2 What is the wave's frequency in Hz?

(2)

2.4.3 Calculate its speed in m/s.

(2)

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

2.5.1 What would be the resultant wave's frequency?

(1)

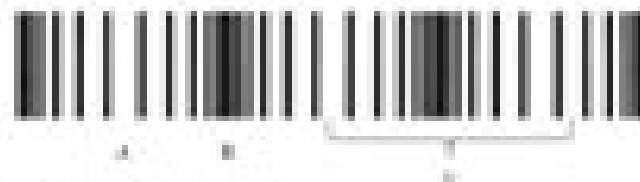
2.5.2 What would be the resultant wave's amplitude?

(1)

[10]

QUESTION 3

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



3.1.1 Which portion is a trough?

(1)

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Judd E. Hollander



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