



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 (q1.1-q1.5) on your Rate paper. Example: 1.6. D

- 1.1 A positively charged object has:
A. an attraction to metal only.
B. an attraction to all matter.
C. an attraction to plastic.
D. an attraction to nothing.
- 1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?
A. Ultraviolet
B. Gamma
C. Microwave
D. X-ray
- 1.3 In which ONE of the following do sound waves travel the FASTEST?
A. Vacuum
B. Air
C. Oil
D. Water
- 1.4 The SI unit for charge is the ...
A. Coulomb
B. Volt
C. Ampere
D. Joule
- 1.5 The relationship between voltage and work done is:
A. Inverse
B. Inversely proportional
C. Directly proportional
D. Inversely proportional

[10]

QUESTION 2

Below is a representation of two waves consisting of continuous pulses. Study carefully and answer the questions that follow.



- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE**. (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 frequency of the pulse? (1)
2.4.3 What is the wave speed? (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
2.5.1 What happens to wave P's amplitude? (2)
2.5.2 What happens to wave Q's amplitude? (2)

[14]

QUESTION 3

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



- 3.1.1 Name the parts A, B and C. (3)

[3]

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Jianjun Gao



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