

## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

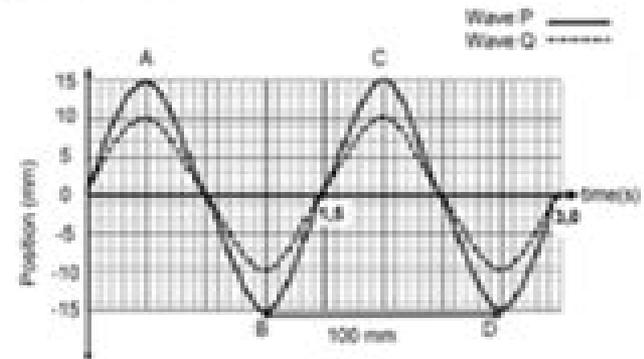
Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
- Excess electrons
  - A deficiency of electrons
  - An excess of protons
  - A deficiency of protons
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
- Gamma rays
  - Radio waves
  - Micro waves
  - X-rays
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
- Vacuum
  - Water
  - Air
  - Steel
- 1.4 The SI unit for charge is the ...
- Coulomb
  - Volt
  - Ampere
  - Kilowatt
- 1.5 The relationship between voltage and work done is:
- Inversely proportional
  - Directly proportional
  - Inversely proportional squared
  - Directly proportional squared

[14]

### QUESTION 2

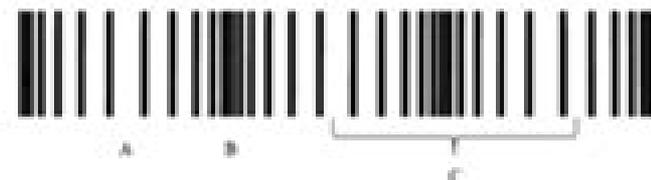
Below is a representation of two waves consisting of continuous pulses. Study it carefully and answer the questions that follow.



- 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:
- What is the magnitude of its wavelength in metres? (1)
  - What is the frequency of the wave? (1)
  - Calculate the wave speed. (3)
- 2.5 If the waves were sent towards each other and allowed to collide:
- What would be the amplitude of wave P? (2)
  - What would be the amplitude of wave Q? (2)
- [14]

### QUESTION 3

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



- 3.1.1 P is the distance between A and C. (2)

(2)

# Physical Science Term 1 Question Papers

**RC Schank**



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web in one an a sperm combines with an a egg in another an a sperm combines with an a egg and in a third an a sperm combines with an a egg each event has a 1 4 chance of happening 1 out of 4 boxes in the punnett square the chance that any of these three events will occur is 1 4 1 4 1 4 3 4

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web the following is a genetic linkage problem involving 4 genes you want to determine which of the genes are linked and which occur on separate chromosomes you cross two true breeding i e remember that this means that they are homozygous plants that have the following characteristics

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