

## 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:
  - A. an attraction to metal.
  - B. a strong attraction to metal.
  - C. an attraction to plastic.
  - D. a strong attraction to plastic.
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
  - A. Radio waves
  - B. X-rays
  - C. Microwaves
  - D. Visible light
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
  - A. Gases
  - B. Liquids
  - C. Solids
  - D. Vacuum
- 1.4 The SI unit for charge is the ...
  - A. Coulomb
  - B. Volt
  - C. Ohm
  - D. Ampere
- 1.5 The relationship between voltage and work done is:
  - A. Current
  - B. Directly proportional
  - C. Inversely proportional
  - D. Indirectly proportional

[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 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:
  - 2.4.1 What is the magnitude of its wavelength in metres? (1)
  - 2.4.2 Write the frequency of the wave. (1)
  - 2.4.3 Calculate the speed of the wave. (3)
- 2.5 If the waves were sent towards each other and allowed to collide.
  - 2.5.1 Write down the amplitude of the wave. (2)
  - 2.5.2 Describe the wave after collision. (2)

[10]

### QUESTION 3

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



- 3.1.1 Point to which A, B and C

(2)

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**Leon Horn, Benjamin du Preez  
Brink, Ronald Colin Jones**



**Physical Science March 2014 Question Paper For 24 Ekurhuleni District:**

*Physical Science* South Africa. Department of Education, 2010      *Physical Science*, 1981      **Physical Science**, 2010\*  
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South Africa. Department of Education, 2010      *Teachers Resource Book for Text and Supplementary Chapters [of] An*  
*Approach to Physical Science* Physical Science for Nonscience Students Project, 1970      Physical Science Test Grd 9 290825  
5th Ed, 2014-04-11      *Physical Science*, 2010\*      **Physical Science Investigations** Charles Lester Bickel, Neal D.  
Eigenfeld, John Clarence Hogg, 1979      **Physical Science, Study Guide** Merrill, 1992-06      All Phycience 1 Patrick  
Pillay, South Africa. Department of Internal Affairs, 1983      **Physical Science for Progress** Milton O. Pella, 1970  
*Physical Science*, 2008

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