

## 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 insulators.
  - B. An attraction to conductors.
  - C. An attraction to insulators.
  - D. A repulsion of conductors.
- 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 pattern. (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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**ML Morrison**



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**Physical Science** Hugh Mac Rae,Kedir Ibrahim,Malcolm James,1977      **Physical Science** ,2010\*      *Everything Science* ,      *Exambuster* Helene Van Niekerk,2010      **Physical Sciences : Questions with Complete Answers for Grade 10** Faan Jordaan,Retha Jordaan,Marike De Beer,2011      **Physical Science (grade 10)** ,2011      Physical Science ,

**Physical Science Workbook** ,1995      Study and Master Physical Science Grade 10 E. J. van Zyl,V. Caul,A. Meyer,E. Ootsthuizen,2000-01-30      **Excellent JSCE physical science** Nevison Mutasa,2003      **Study and Master Physical Science Grade 10** Karin H. Kelder,2005-09-01 Study Master Physical Sciences was developed by practising teachers and covers all the requirements of the RNCS for Physical Sciences Learner s Book module openers explaining themes unit openers highlighting key concepts outcomes achieved learning Outcomes and Assessment Standards for each activity icons indicating group paired or individual activities definitions formulas are clearly explained and highlighted case studies applying the skills knowledge values and attitudes learned to situations in the real world Did you know features providing additional information Summative Assessment activities at the end of each module Teacher s Guide comprehensive overview of the RNCS an introduction to outcomes based education information on how to manage assessment in the classroom photocopiable assessment sheets background information and teaching hints for each Unit answers to the activities in the Learner s Book      Physical Science Dictionary Umesh Maharaj,2013      **Supplementary Exercises grade 10 physical science** ,      Physical Science Hugh Mac Rae,Kedir Ibrahim,Malcolm James,1977      **Physical Science for Gr 10 : Physical Science for Grade 10 Theory, Exercises & Practical Investigations (CAPS)** J. M. Lucas,2011      Physical Science South Africa. Department of Education,2010      *DocScientia Physical Sciences* Santie Du Plessis,Jonathan Evans,Carlien Fanoy,Doc Scientia Centre,2014

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