

## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

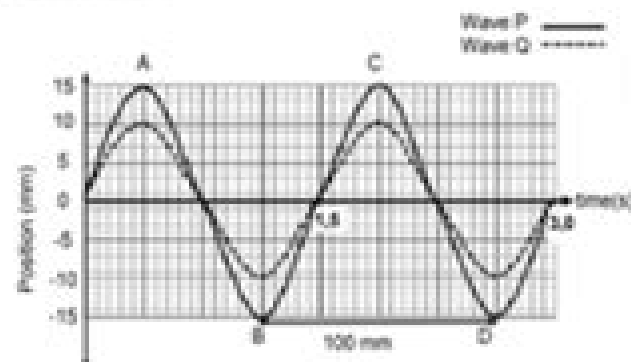
Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.5) on your folio paper. Example 1.6. D.

- 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.

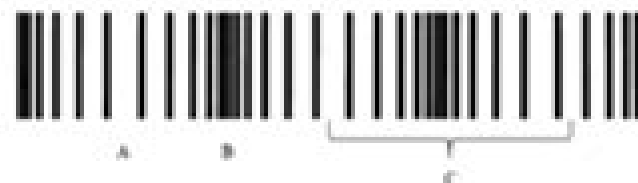


- 2.1 Define a **pulse**. (2)
- 2.2 Identify the type of waves illustrated above as **Transverse** or **Longitudinal**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For Wave Q:
  - 2.4.1 What is the magnitude of its wavelength in metres? (1)
  - 2.4.2 Write the 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 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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**AW Chickering**



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### **Table of Contents Physical Science Grade 10 Past Papers**

1. Understanding the eBook Physical Science Grade 10 Past Papers
  - The Rise of Digital Reading Physical Science Grade 10 Past Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 10 Past Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science Grade 10 Past Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 10 Past Papers
  - Personalized Recommendations

- Physical Science Grade 10 Past Papers User Reviews and Ratings
- Physical Science Grade 10 Past Papers and Bestseller Lists
- 5. Accessing Physical Science Grade 10 Past Papers Free and Paid eBooks
  - Physical Science Grade 10 Past Papers Public Domain eBooks
  - Physical Science Grade 10 Past Papers eBook Subscription Services
  - Physical Science Grade 10 Past Papers Budget-Friendly Options
- 6. Navigating Physical Science Grade 10 Past Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Grade 10 Past Papers Compatibility with Devices
  - Physical Science Grade 10 Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Grade 10 Past Papers
  - Highlighting and Note-Taking Physical Science Grade 10 Past Papers
  - Interactive Elements Physical Science Grade 10 Past Papers
- 8. Staying Engaged with Physical Science Grade 10 Past Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Grade 10 Past Papers
- 9. Balancing eBooks and Physical Books Physical Science Grade 10 Past Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Grade 10 Past Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Grade 10 Past Papers
  - Setting Reading Goals Physical Science Grade 10 Past Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Grade 10 Past Papers
  - Fact-Checking eBook Content of Physical Science Grade 10 Past Papers



- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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