

GRADE 10 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

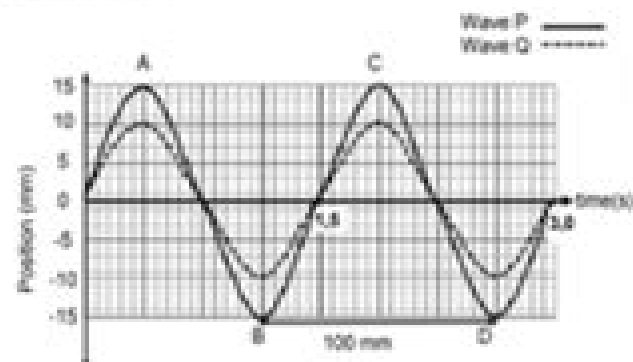
Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
 - A. An attraction to metal.
 - B. An attraction to all matter.
 - C. An attraction to electrons.
 - D. A repulsion of electrons.
- 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. Inversely proportional
 - B. Directly proportional
 - C. Inversely proportional squared
 - D. Inversely proportional cubed

[10]

QUESTION 2

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

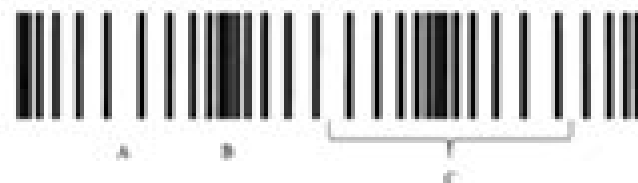


- 2.1 Define a **pulse**. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE** or **LONGITUDINAL**. (1)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For Wave Q:
 - 2.4.1 What is the magnitude of its wavelength in metres? (1)
 - 2.4.2 Write down the 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 what happens to wave P. (2)
 - 2.5.2 Describe what happens to wave Q. (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 Rasmussen



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Table of Contents Physical Science 2014 Manebo Questions

1. Understanding the eBook Physical Science 2014 Manebo Questions
 - The Rise of Digital Reading Physical Science 2014 Manebo Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science 2014 Manebo Questions
 - 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 2014 Manebo Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science 2014 Manebo Questions
 - Personalized Recommendations
 - Physical Science 2014 Manebo Questions User Reviews and Ratings
 - Physical Science 2014 Manebo Questions and Bestseller Lists
5. Accessing Physical Science 2014 Manebo Questions Free and Paid eBooks
 - Physical Science 2014 Manebo Questions Public Domain eBooks
 - Physical Science 2014 Manebo Questions eBook Subscription Services
 - Physical Science 2014 Manebo Questions Budget-Friendly Options

6. Navigating Physical Science 2014 Manebo Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science 2014 Manebo Questions Compatibility with Devices
 - Physical Science 2014 Manebo Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science 2014 Manebo Questions
 - Highlighting and Note-Taking Physical Science 2014 Manebo Questions
 - Interactive Elements Physical Science 2014 Manebo Questions
8. Staying Engaged with Physical Science 2014 Manebo Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science 2014 Manebo Questions
9. Balancing eBooks and Physical Books Physical Science 2014 Manebo Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science 2014 Manebo Questions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science 2014 Manebo Questions
 - Setting Reading Goals Physical Science 2014 Manebo Questions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science 2014 Manebo Questions
 - Fact-Checking eBook Content of Physical Science 2014 Manebo Questions
 - 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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