

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
 - Ultraviolet
 - Micro waves
 - Radio waves
- 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
 - Ohm
- 1.5 The relationship between voltage and work done is:
- Inversely proportional
 - Directly proportional
 - Inversely proportional squared
 - Directly proportional squared

[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:
- 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)
- [10]

QUESTION 3

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



- 3.1.1 P is the crest of A. Q is the ... (2)

(2)

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JE Gale



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Table of Contents March 2014 Physical Science Question Paper

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

6. Navigating March 2014 Physical Science Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - March 2014 Physical Science Question Paper Compatibility with Devices
 - March 2014 Physical Science Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of March 2014 Physical Science Question Paper
 - Highlighting and Note-Taking March 2014 Physical Science Question Paper
 - Interactive Elements March 2014 Physical Science Question Paper
8. Staying Engaged with March 2014 Physical Science Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers March 2014 Physical Science Question Paper
9. Balancing eBooks and Physical Books March 2014 Physical Science Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection March 2014 Physical Science Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine March 2014 Physical Science Question Paper
 - Setting Reading Goals March 2014 Physical Science Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of March 2014 Physical Science Question Paper
 - Fact-Checking eBook Content of March 2014 Physical Science Question Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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