

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. a repulsion to insulators.
 - C. an attraction to conductors.
 - D. a repulsion to 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 wave speed. (3)
- 2.5 If the waves were sent towards each other and allowed to collide.
 - 2.5.1 What would be the amplitude of the wave? (2)
 - 2.5.2 Describe the wave speed. (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)

14 Msce Questions Physical Science

Albert A Gayle



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National Inventory of Research Projects and Priority Areas of Research ,1991 **Advances in Solid State Physics** Bernhard Kramer,2004-08-12 This Volume 44 of Advances in Solid State Physics contains the written versions of most of the invited lectures of the Spring Meeting of the Condensed Matter Physics section of the Deutsche Physikalische Gesellschaft held from March 8 to 12 2004 in Regensburg Germany Many of the topical talks given at the numerous and very lively symposia are also included They have covered extremely interesting and timely subjects Thus the book truly reflects the status of the field of solid state physics in 2004 and indicates its importance not only in Germany but also internationally

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Table of Contents 14 Msce Questions Physical Science

1. Understanding the eBook 14 Msce Questions Physical Science
 - The Rise of Digital Reading 14 Msce Questions Physical Science
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Msce Questions Physical Science
 - 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 14 Msce Questions Physical Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Msce Questions Physical Science
 - Personalized Recommendations
 - 14 Msce Questions Physical Science User Reviews and Ratings
 - 14 Msce Questions Physical Science and Bestseller Lists
5. Accessing 14 Msce Questions Physical Science Free and Paid eBooks
 - 14 Msce Questions Physical Science Public Domain eBooks
 - 14 Msce Questions Physical Science eBook Subscription Services
 - 14 Msce Questions Physical Science Budget-Friendly Options
6. Navigating 14 Msce Questions Physical Science eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 Msce Questions Physical Science Compatibility with Devices
 - 14 Msce Questions Physical Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Msce Questions Physical Science
 - Highlighting and Note-Taking 14 Msce Questions Physical Science
 - Interactive Elements 14 Msce Questions Physical Science

8. Staying Engaged with 14 Msce Questions Physical Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Msce Questions Physical Science
9. Balancing eBooks and Physical Books 14 Msce Questions Physical Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Msce Questions Physical Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 14 Msce Questions Physical Science
 - Setting Reading Goals 14 Msce Questions Physical Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 14 Msce Questions Physical Science
 - Fact-Checking eBook Content of 14 Msce Questions Physical Science
 - 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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