

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 objects.
 - B. a repulsion to all other metals.
 - C. an attraction to all other metals.
 - D. a repulsion to all other metals.
- 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**. (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 What is 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)

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Annelies Wilder-Smith



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The Routledge Handbook of Religion, Politics and Ideology Jeffrey Haynes, 2021-08-14 This comprehensive handbook examines relationships between religion, politics, and ideology with a focus on several world religions: Christianity, Islam, Buddhism, Hinduism, and Judaism in a variety of contexts, regions, and countries. Relationships between religion, politics, and ideology help mould people's attitudes about the way that political systems both domestically and internationally are organised and operate. While conceptually separate, religion, politics, and ideology often become intertwined, and as a result, their relationships evolve over time. This volume brings together a number of expert contributors who explore a wide range of topical and controversial issues, including gender, nationalism, communism, fascism, populism, and Islamism. Such topics inform the overall aim of the handbook to provide a comprehensive summary of the relationships between religion, politics, and ideology, including basic issues and new approaches. This handbook is a major research resource for students, researchers, and professionals from various disciplinary backgrounds, including religious studies, political science, international relations, and sociology.

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Table of Contents Grade 10 Physical Science March Question Paper 2014

1. Understanding the eBook Grade 10 Physical Science March Question Paper 2014
 - The Rise of Digital Reading Grade 10 Physical Science March Question Paper 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Physical Science March Question Paper 2014
 - 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 Grade 10 Physical Science March Question Paper 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Physical Science March Question Paper 2014
 - Personalized Recommendations
 - Grade 10 Physical Science March Question Paper 2014 User Reviews and Ratings
 - Grade 10 Physical Science March Question Paper 2014 and Bestseller Lists
5. Accessing Grade 10 Physical Science March Question Paper 2014 Free and Paid eBooks
 - Grade 10 Physical Science March Question Paper 2014 Public Domain eBooks
 - Grade 10 Physical Science March Question Paper 2014 eBook Subscription Services

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