



## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and enter ONLY the LETTER (A-D) next to the QUESTION NUMBER (q1 1-15) on your Data paper. Example: 1.6. D

- 1.1 A positively charged object has:
  - A. a negative electric field
  - B. an electric field of positive
  - C. an electric field of negative
  - D. an electric field of positive
- 1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?
  - A. Ultraviolet
  - B. Gamma
  - C. Microwave
  - D. X-ray
- 1.3 In which ONE of the following do sound waves travel the FASTEST?
  - A. Vacuum
  - B. Air
  - C. Oil
  - D. Water
- 1.4 The SI unit for charge is the ...
  - A. Coulomb
  - B. Volt
  - C. Ampere
  - D. Joule
- 1.5 The relationship between voltage and work done is:
  - A. Inverse
  - B. Directly proportional
  - C. Inversely proportional
  - D. Indirectly proportional

[10]

### QUESTION 2

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



- 2.1 Define a pulse. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE**. (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 What is the frequency of the pulse? (1)
  - 2.4.3 Calculate the wave speed. (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
  - 2.5.1 What happens to wave P's amplitude? (2)
  - 2.5.2 What happens to wave Q's amplitude? (2)

[14]

### QUESTION 3

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



- 3.1.1 Which part is a rarefaction? (2)

(2)

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### **Table of Contents Physical Sciences Common Tasks Question Paper In 24**

1. Understanding the eBook Physical Sciences Common Tasks Question Paper In 24
  - The Rise of Digital Reading Physical Sciences Common Tasks Question Paper In 24
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Common Tasks Question Paper In 24
  - 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 Sciences Common Tasks Question Paper In 24
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Common Tasks Question Paper In 24
  - Personalized Recommendations

- Physical Sciences Common Tasks Question Paper In 24 User Reviews and Ratings
- Physical Sciences Common Tasks Question Paper In 24 and Bestseller Lists
- 5. Accessing Physical Sciences Common Tasks Question Paper In 24 Free and Paid eBooks
  - Physical Sciences Common Tasks Question Paper In 24 Public Domain eBooks
  - Physical Sciences Common Tasks Question Paper In 24 eBook Subscription Services
  - Physical Sciences Common Tasks Question Paper In 24 Budget-Friendly Options
- 6. Navigating Physical Sciences Common Tasks Question Paper In 24 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Sciences Common Tasks Question Paper In 24 Compatibility with Devices
  - Physical Sciences Common Tasks Question Paper In 24 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Sciences Common Tasks Question Paper In 24
  - Highlighting and Note-Taking Physical Sciences Common Tasks Question Paper In 24
  - Interactive Elements Physical Sciences Common Tasks Question Paper In 24
- 8. Staying Engaged with Physical Sciences Common Tasks Question Paper In 24
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Sciences Common Tasks Question Paper In 24
- 9. Balancing eBooks and Physical Books Physical Sciences Common Tasks Question Paper In 24
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Sciences Common Tasks Question Paper In 24
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Sciences Common Tasks Question Paper In 24
  - Setting Reading Goals Physical Sciences Common Tasks Question Paper In 24
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Sciences Common Tasks Question Paper In 24
  - Fact-Checking eBook Content of Physical Sciences Common Tasks Question Paper In 24

- 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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