



GRADE 10 PHYSICAL SCIENCE 5 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 (1-10) on your Answer Paper. Example 10: D

1.1 A positively charged object

- A. attracts a neutral object
- B. repels a neutral object
- C. attracts a charged object
- D. repels a charged object

1.2 Which one of the following types of electromagnetic wave has the LONGEST wavelength?

- A. Radio waves
- B. X-rays
- C. Microwaves
- D. Gamma rays

1.3 In which ONE of the following do sound waves travel the FASTEST?

- A. Air
- B. Water
- C. Oil
- D. Glass

1.4 The SI unit for charge is the ...

- A. Volt
- B. Joule
- C. Ohm
- D. Coulomb

1.5 The relationship between voltage and work done is

- A. $V = \frac{W}{Q}$
- B. $Q = \frac{W}{V}$
- C. $W = \frac{Q}{V}$
- D. $W = \frac{V}{Q}$

[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 wave that is shown above as TRANSVERSE wave.

(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 centimetres?

(2)

2.4.2 What is the wave's frequency in Hz?

(2)

2.4.3 Calculate its speed in m/s.

(2)

2.5 If the waves were sent towards each other and allowed to collide,

2.5.1 What would be the resultant wavelength?

(2)

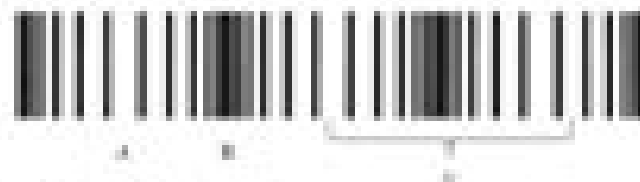
2.5.2 What would be the resultant frequency?

(2)

[10]

QUESTION 3

3.1 The diagram below shows different portions of a longitudinal wave.



3.1.1 Which section is a pulse?

(2)

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Brink, Ronald Colin Jones**



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

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