

- Answer ALL the questions in the same handwriting.
- Non-programmable calculators may be used.
- Appropriate mathematical instruments may be used.
- Round off your final numerical answers to a minimum of two decimal places.
- Give detailed reasons, discussions, if asked where needed.
- Write neatly and legibly.

Learner's Name

Learner's Surname

Grade

Page 1 of 5

- The following are represented by A, B and C:
- Amplitude, wavelength, wave speed
 - Crest, trough, wavelength
 - Amplitude, wave speed, pulse length
 - Crest, trough, wavelength

[2 Marks]

1.5. The displacement of mass m at points A and B is shown.



Page 2 of 5

Physical Sciences – Paper 1 (Physics)

How many wavelengths separate point A and B?

- A) 1,25 B) 1 C) 1,5 D) 3

[2 Marks]

1.6. Devices are sometimes placed under the hulls of a boat's hulls. This equipment uses the following wave...

- A) X-ray B) Infrared light C) Ultrasound D) Ultra-violet light

[2 Marks]

1.7. The following are an example of electromagnetic waves:

- A) Microwaves, visible light, X-rays
B) X-rays, visible light, microwaves
C) Microwaves, X-rays, visible light

Physical Sciences – Paper 1 (Physics)

2.2. Identify TWO points in the graph at which the particles would be moving in the same direction.

[2 Marks]

2.3. Which point has the maximum displacement?

[1 Mark]

Calculate

2.4. The frequency of the wave produced

[2 Marks]

2.5. The wavelength of the wave produced

[1 Mark]

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Judd E. Hollander



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1. Understanding the eBook Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - The Rise of Digital Reading Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - 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 Physics Paper 1 Exemplar 2012 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Personalized Recommendations
 - Grade 10 Physics Paper 1 Exemplar 2012 Memo User Reviews and Ratings
 - Grade 10 Physics Paper 1 Exemplar 2012 Memo and Bestseller Lists
5. Accessing Grade 10 Physics Paper 1 Exemplar 2012 Memo Free and Paid eBooks
 - Grade 10 Physics Paper 1 Exemplar 2012 Memo Public Domain eBooks
 - Grade 10 Physics Paper 1 Exemplar 2012 Memo eBook Subscription Services
 - Grade 10 Physics Paper 1 Exemplar 2012 Memo Budget-Friendly Options

6. Navigating Grade 10 Physics Paper 1 Exemplar 2012 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 10 Physics Paper 1 Exemplar 2012 Memo Compatibility with Devices
 - Grade 10 Physics Paper 1 Exemplar 2012 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Highlighting and Note-Taking Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Interactive Elements Grade 10 Physics Paper 1 Exemplar 2012 Memo
8. Staying Engaged with Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 10 Physics Paper 1 Exemplar 2012 Memo
9. Balancing eBooks and Physical Books Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 10 Physics Paper 1 Exemplar 2012 Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Setting Reading Goals Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - Fact-Checking eBook Content of Grade 10 Physics Paper 1 Exemplar 2012 Memo
 - 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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