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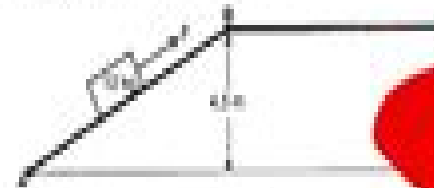
Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

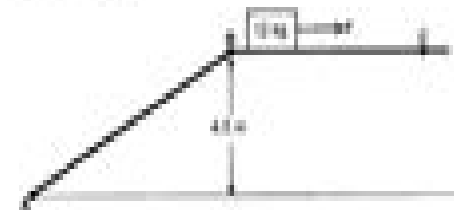
(QUESTION 6 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 2.0 m s⁻¹. See the diagram below.



- 6.1 Define the term non-conservative force.
- 6.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 6.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (5)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 6.4 Calculate the distance from point A to point B. (5)

(10)

Grade 12 2015 June Physics Memo

TD Snyder



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Grade 12 2015 June Physics Memo Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grade 12 2015 June Physics Memo**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Grade 12 2015 June Physics Memo

1. Understanding the eBook Grade 12 2015 June Physics Memo
 - The Rise of Digital Reading Grade 12 2015 June Physics Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 2015 June Physics 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 12 2015 June Physics Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 2015 June Physics Memo
 - Personalized Recommendations
 - Grade 12 2015 June Physics Memo User Reviews and Ratings
 - Grade 12 2015 June Physics Memo and Bestseller Lists

5. Accessing Grade 12 2015 June Physics Memo Free and Paid eBooks
 - Grade 12 2015 June Physics Memo Public Domain eBooks
 - Grade 12 2015 June Physics Memo eBook Subscription Services
 - Grade 12 2015 June Physics Memo Budget-Friendly Options
6. Navigating Grade 12 2015 June Physics Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 2015 June Physics Memo Compatibility with Devices
 - Grade 12 2015 June Physics Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 2015 June Physics Memo
 - Highlighting and Note-Taking Grade 12 2015 June Physics Memo
 - Interactive Elements Grade 12 2015 June Physics Memo
8. Staying Engaged with Grade 12 2015 June Physics Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12 2015 June Physics Memo
9. Balancing eBooks and Physical Books Grade 12 2015 June Physics Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 2015 June Physics Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 12 2015 June Physics Memo
 - Setting Reading Goals Grade 12 2015 June Physics Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 12 2015 June Physics Memo
 - Fact-Checking eBook Content of Grade 12 2015 June Physics 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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