



basic education

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Basic Education  
REPUBLIC OF SOUTH AFRICA

# FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

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

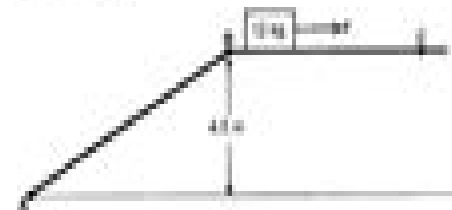
(QUESTION 6 (Start on a new page.)

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 3.00 m/s. See the diagram below.



- 6.1 Define the term non-conservative force.
- 6.2 Draw a detailed 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)

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**N Noddings**



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## **Table of Contents Grade 1physics Paper 2 Memo 2014 November**

1. Understanding the eBook Grade 1physics Paper 2 Memo 2014 November
  - The Rise of Digital Reading Grade 1physics Paper 2 Memo 2014 November
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1physics Paper 2 Memo 2014 November
  - 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 1physics Paper 2 Memo 2014 November
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1physics Paper 2 Memo 2014 November
  - Personalized Recommendations
  - Grade 1physics Paper 2 Memo 2014 November User Reviews and Ratings
  - Grade 1physics Paper 2 Memo 2014 November and Bestseller Lists
5. Accessing Grade 1physics Paper 2 Memo 2014 November Free and Paid eBooks
  - Grade 1physics Paper 2 Memo 2014 November Public Domain eBooks
  - Grade 1physics Paper 2 Memo 2014 November eBook Subscription Services
  - Grade 1physics Paper 2 Memo 2014 November Budget-Friendly Options
6. Navigating Grade 1physics Paper 2 Memo 2014 November eBook Formats

- ePub, PDF, MOBI, and More
  - Grade 1physics Paper 2 Memo 2014 November Compatibility with Devices
  - Grade 1physics Paper 2 Memo 2014 November Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Grade 1physics Paper 2 Memo 2014 November
    - Highlighting and Note-Taking Grade 1physics Paper 2 Memo 2014 November
    - Interactive Elements Grade 1physics Paper 2 Memo 2014 November
  8. Staying Engaged with Grade 1physics Paper 2 Memo 2014 November
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Grade 1physics Paper 2 Memo 2014 November
  9. Balancing eBooks and Physical Books Grade 1physics Paper 2 Memo 2014 November
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Grade 1physics Paper 2 Memo 2014 November
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Grade 1physics Paper 2 Memo 2014 November
    - Setting Reading Goals Grade 1physics Paper 2 Memo 2014 November
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Grade 1physics Paper 2 Memo 2014 November
    - Fact-Checking eBook Content of Grade 1physics Paper 2 Memo 2014 November
    - 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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