



## GRADE 11 PHYSICAL SCIENCE'S MARCH TEST

### QUESTION 1

Various options are provided for possible answers to the following questions. Choose the correct answer and enter (A), (B), (C) or (D) next to the QUESTION NUMBER (1-10) on your final paper. Example: 1.7. B

- 1.1. The graphs below show the relationship between the net force and the acceleration for two masses Q and P.



Select one of the following statements is true?

- A.  $m_Q < m_P$  and  $a_Q < a_P$

B.  $m_Q < m_P$  and  $a_Q > a_P$

C.  $m_Q > m_P$  and  $a_Q < a_P$

D.  $m_Q > m_P$  and  $a_Q > a_P$
- A. In what of the following cases would the resultant force acting on an object be equal to 0?

A.  $10\text{ N}$  acting vertically upwards and  $10\text{ N}$  acting vertically downwards

B.  $10\text{ N}$  acting vertically upwards and  $10\text{ N}$  acting vertically downwards

C.  $10\text{ N}$  acting vertically upwards and  $10\text{ N}$  acting vertically upwards

D.  $10\text{ N}$  acting vertically upwards and  $10\text{ N}$  acting vertically downwards
- Select all the statements below that describe the displacement?

A. An object moving vertically upwards and then vertically downwards

B. An object moving vertically upwards and then vertically downwards

C. An object moving vertically upwards and then vertically downwards

D. An object moving vertically upwards and then vertically downwards
- The inertia of an object...

A. is proportional to its mass

B. is proportional to its velocity

C. is proportional to its acceleration

D. is proportional to its displacement
- An object has a weight  $W$  on Earth. What is the value of the weight of the object on the Moon?

A.  $W$

B.  $0.16W$

C.  $6.25W$

D.  $16W$

surface of the Earth?

- $W$
- $0.16W$
- $6.25W$
- $16W$

- 1.6. A box is pulled forward with a force of  $100\text{ N}$  but does not move. A possible reason for this is that:
- The applied force is too small
  - The applied force is equal to the weight
  - The applied force is equal to the weight
  - The applied force is equal to the weight

[10]

### QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- The resultant force is  $100\text{ N}$ .
- The tension in rope P is  $100\text{ N}$  at an angle of  $30^\circ$  to the vertical and the tension in Q is  $100\text{ N}$  at  $45^\circ$  to the vertical.

[2]



Calculate the RESULTANT of the

111. Resultant of the two forces.
112. Resultant of the two forces.
113. Resultant of the horizontal components.
114. Resultant of the vertical components.
115. Resultant of the two forces.

[4]

[4]

[5]

[5]

[5]

- 1.7. A car is moving at a constant speed.

[1]

[10]

# Grade 11 Physical Science 2013 Paper 1 June Memo

**David G. Myers**



**Grade 11 Physical Science 2013 Paper 1 June Memo:**

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## **Table of Contents Grade 11 Physical Science 2013 Paper 1 June Memo**

1. Understanding the eBook Grade 11 Physical Science 2013 Paper 1 June Memo
  - The Rise of Digital Reading Grade 11 Physical Science 2013 Paper 1 June Memo
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Physical Science 2013 Paper 1 June 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 11 Physical Science 2013 Paper 1 June Memo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Physical Science 2013 Paper 1 June Memo
  - Personalized Recommendations
  - Grade 11 Physical Science 2013 Paper 1 June Memo User Reviews and Ratings
  - Grade 11 Physical Science 2013 Paper 1 June Memo and Bestseller Lists
5. Accessing Grade 11 Physical Science 2013 Paper 1 June Memo Free and Paid eBooks
  - Grade 11 Physical Science 2013 Paper 1 June Memo Public Domain eBooks
  - Grade 11 Physical Science 2013 Paper 1 June Memo eBook Subscription Services

- Grade 11 Physical Science 2013 Paper 1 June Memo Budget-Friendly Options
- 6. Navigating Grade 11 Physical Science 2013 Paper 1 June Memo eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 11 Physical Science 2013 Paper 1 June Memo Compatibility with Devices
  - Grade 11 Physical Science 2013 Paper 1 June Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 11 Physical Science 2013 Paper 1 June Memo
  - Highlighting and Note-Taking Grade 11 Physical Science 2013 Paper 1 June Memo
  - Interactive Elements Grade 11 Physical Science 2013 Paper 1 June Memo
- 8. Staying Engaged with Grade 11 Physical Science 2013 Paper 1 June Memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 11 Physical Science 2013 Paper 1 June Memo
- 9. Balancing eBooks and Physical Books Grade 11 Physical Science 2013 Paper 1 June Memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 11 Physical Science 2013 Paper 1 June Memo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 11 Physical Science 2013 Paper 1 June Memo
  - Setting Reading Goals Grade 11 Physical Science 2013 Paper 1 June Memo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 11 Physical Science 2013 Paper 1 June Memo
  - Fact-Checking eBook Content of Grade 11 Physical Science 2013 Paper 1 June 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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