

## GRADE 11 PHYSICAL SCIENCES 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 (1.1-1.6) on your folio paper. Example 1.7, D.

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



Which one of the following statements is true?

- A. A heavy object has more mass.  
B. A heavy object has more weight.  
C. A heavy object has more inertia.  
D. The heavy object has a smaller acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A heavy object is accelerating.  
B. When the net force acting on the object is zero.  
C. A heavy object is moving with a constant velocity.  
D. A heavy object is moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.  
B. An object is moving at a constant velocity.  
C. An object is not experiencing any forces.  
D. An object is moving with a constant velocity.
- 1.4 The inertia of an object...
- A. is a measure of its mass.  
B. is a measure of its weight.  
C. is a measure of its volume.  
D. is a measure of its density.
- 1.5 An astronaut has a weight  $F_g$  on Earth. What distance, in terms of the radius of the Earth ( $r$ ), will the astronaut be if his weight is a 1/4 of his weight ( $F_g$ ) on the

surface of the Earth?

- A.  $2r$   
B.  $r$   
C.  $1.5r$   
D.  $0.5r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:

- A. The net force is zero.  
B. The net force is 100N.  
C. The net force is 100N.  
D. The net force is 100N.

[14]

### 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.

- 2.1 Draw the free-body diagram.

(2)

- 2.2 The tension in rope P is 100N at an angle of  $30^\circ$  to the vertical and the tension in Q is 51,52N at  $45^\circ$  to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Horizontal components of P and Q respectively.  
2.2.2 Vertical components of P and Q respectively.  
2.2.3 Resultant of the horizontal components.  
2.2.4 Resultant of the vertical components.  
2.2.5 Resultant of the forces acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

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**K Morrison**



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## **Table of Contents Physical Science Grade 1march Controlled Test Paper With Memo**

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

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