

## 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. Mass of X is greater than mass of Y.  
B. Acceleration of X is greater than acceleration of Y.  
C. Mass of Y is greater than mass of X.  
D. The slope of X is greater than the slope of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A car moving with a constant speed.  
B. A ball falling from the sky to the ground with a constant acceleration.  
C. A car moving with a constant speed in a straight line.  
D. A car 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 in a straight line.  
C. An object is not experiencing any forces other than the gravity of the Earth.  
D. An object is moving with a constant speed in a straight line.
- 1.4 The inertia of an object...
- A. is a measure of its mass.  
B. is a measure of its speed.  
C. is a measure of its acceleration.  
D. is a measure of its momentum.
- 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.  $r$   
B.  $2r$   
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 box is too heavy.  
B. The box is too light.  
C. The box is too big.  
D. The box is too small.

[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. (4)  
2.2.2 Vertical components of P and Q respectively. (4)  
2.2.3 Resultant of the horizontal components. (5)  
2.2.4 Resultant of the vertical components. (5)  
2.2.5 Resultant of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

# Paper 1 Physical Science Grade 11 Scope

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### **Table of Contents Paper 1 Physical Science Grade 11 Scope**

1. Understanding the eBook Paper 1 Physical Science Grade 11 Scope
  - The Rise of Digital Reading Paper 1 Physical Science Grade 11 Scope
  - Advantages of eBooks Over Traditional Books
2. Identifying Paper 1 Physical Science Grade 11 Scope
  - 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 Paper 1 Physical Science Grade 11 Scope
  - User-Friendly Interface
4. Exploring eBook Recommendations from Paper 1 Physical Science Grade 11 Scope
  - Personalized Recommendations

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

- 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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