

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 with a constant downward 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 moving in a circular motion in a horizontal plane.
B. An object moving in a circular motion in a vertical plane.
C. An object moving in a straight line with a constant velocity.
D. An object moving in a circular motion in a vertical plane.
- 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?

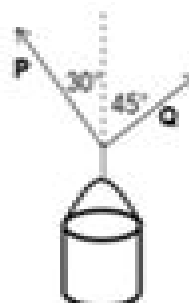
- A. r
B. $2r$
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[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 force diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° 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]

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Table of Contents Grade 1march 2physical Science Papers

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

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