

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 person moving at a constant speed.
B. When the net force acting on an object is constant and not equal to zero.
C. A person accelerating from rest to a constant velocity.
D. A person moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving in a circular path at a constant speed.
B. An object moving at a constant velocity in a straight line.
C. An object moving in a straight line with a constant velocity.
D. An object moving in a circular path at a constant speed.
- 1.4 The inertia of an object...
- A. Is greater for a heavier object.
B. Is greater for an object with a larger surface area.
C. Is the resistance to any change in its state of motion.
D. Is the same for all objects.
- 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?

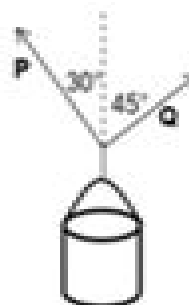
- A. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[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° 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 11 March 2014 Physical Science Question Paper And Memorandum

1. Understanding the eBook Grade 11 March 2014 Physical Science Question Paper And Memorandum
 - The Rise of Digital Reading Grade 11 March 2014 Physical Science Question Paper And Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 March 2014 Physical Science Question Paper And Memorandum
 - 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 March 2014 Physical Science Question Paper And Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 March 2014 Physical Science Question Paper And Memorandum
 - Personalized Recommendations
 - Grade 11 March 2014 Physical Science Question Paper And Memorandum User Reviews and Ratings
 - Grade 11 March 2014 Physical Science Question Paper And Memorandum and Bestseller Lists
5. Accessing Grade 11 March 2014 Physical Science Question Paper And Memorandum Free and Paid eBooks

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