

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 constant acceleration.
B. A ball falling from the sky with constant downward acceleration.
C. A car moving with constant velocity in a straight line.
D. A car moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving in a circular path in the sky.
B. An object moving in a straight line with a constant velocity.
C. An object moving in a straight line with a constant acceleration.
D. An object moving in a circular path in the sky.
- 1.4 The inertia of an object...
- A. Is greater in a moving object.
B. Depends on the speed of the object.
C. Is the tendency of an object to resist a change in its state of motion.
D. Depends on the mass of the object.
- 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. Friction force is greater than 100N.
B. Friction force is less than 100N.
C. Friction force is equal to 100N.
D. None of the above.

[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.
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 force (magnitude and direction) on the bucket.

- 2.3 Calculate the mass of the bucket.

(3)

[14]

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Table of Contents Gradephysical Sciences March2014 Paper1

1. Understanding the eBook Gradephysical Sciences March2014 Paper1
 - The Rise of Digital Reading Gradephysical Sciences March2014 Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying Gradephysical Sciences March2014 Paper1
 - 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 Gradephysical Sciences March2014 Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gradephysical Sciences March2014 Paper1
 - Personalized Recommendations

- Gradephysical Sciences March2014 Paper1 User Reviews and Ratings
- Gradephysical Sciences March2014 Paper1 and Bestseller Lists
- 5. Accessing Gradephysical Sciences March2014 Paper1 Free and Paid eBooks
 - Gradephysical Sciences March2014 Paper1 Public Domain eBooks
 - Gradephysical Sciences March2014 Paper1 eBook Subscription Services
 - Gradephysical Sciences March2014 Paper1 Budget-Friendly Options
- 6. Navigating Gradephysical Sciences March2014 Paper1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gradephysical Sciences March2014 Paper1 Compatibility with Devices
 - Gradephysical Sciences March2014 Paper1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gradephysical Sciences March2014 Paper1
 - Highlighting and Note-Taking Gradephysical Sciences March2014 Paper1
 - Interactive Elements Gradephysical Sciences March2014 Paper1
- 8. Staying Engaged with Gradephysical Sciences March2014 Paper1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gradephysical Sciences March2014 Paper1
- 9. Balancing eBooks and Physical Books Gradephysical Sciences March2014 Paper1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gradephysical Sciences March2014 Paper1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gradephysical Sciences March2014 Paper1
 - Setting Reading Goals Gradephysical Sciences March2014 Paper1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gradephysical Sciences March2014 Paper1
 - Fact-Checking eBook Content of Gradephysical Sciences March2014 Paper1

- 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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