

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. When the car starts from rest and starts to move 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.
C. An object is not experiencing any forces.
D. An object is moving with a constant acceleration.
- 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 velocity.
- 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]

Physical Science Grade 11 March Exam Paper Memo 2014 Caps

J. M. Lucas



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Table of Contents Physical Science Grade 11 March Exam Paper Memo 2014 Caps

1. Understanding the eBook Physical Science Grade 11 March Exam Paper Memo 2014 Caps
 - The Rise of Digital Reading Physical Science Grade 11 March Exam Paper Memo 2014 Caps
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 11 March Exam Paper Memo 2014 Caps
 - 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 11 March Exam Paper Memo 2014 Caps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 11 March Exam Paper Memo 2014 Caps

- Personalized Recommendations
 - Physical Science Grade 11 March Exam Paper Memo 2014 Caps User Reviews and Ratings
 - Physical Science Grade 11 March Exam Paper Memo 2014 Caps and Bestseller Lists
5. Accessing Physical Science Grade 11 March Exam Paper Memo 2014 Caps Free and Paid eBooks
- Physical Science Grade 11 March Exam Paper Memo 2014 Caps Public Domain eBooks
 - Physical Science Grade 11 March Exam Paper Memo 2014 Caps eBook Subscription Services
 - Physical Science Grade 11 March Exam Paper Memo 2014 Caps Budget-Friendly Options
6. Navigating Physical Science Grade 11 March Exam Paper Memo 2014 Caps eBook Formats
- ePub, PDF, MOBI, and More
 - Physical Science Grade 11 March Exam Paper Memo 2014 Caps Compatibility with Devices
 - Physical Science Grade 11 March Exam Paper Memo 2014 Caps Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physical Science Grade 11 March Exam Paper Memo 2014 Caps
 - Highlighting and Note-Taking Physical Science Grade 11 March Exam Paper Memo 2014 Caps
 - Interactive Elements Physical Science Grade 11 March Exam Paper Memo 2014 Caps
8. Staying Engaged with Physical Science Grade 11 March Exam Paper Memo 2014 Caps
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade 11 March Exam Paper Memo 2014 Caps
9. Balancing eBooks and Physical Books Physical Science Grade 11 March Exam Paper Memo 2014 Caps
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade 11 March Exam Paper Memo 2014 Caps
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade 11 March Exam Paper Memo 2014 Caps
- Setting Reading Goals Physical Science Grade 11 March Exam Paper Memo 2014 Caps
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade 11 March Exam Paper Memo 2014 Caps

- Fact-Checking eBook Content of Physical Science Grade 11 March Exam Paper Memo 2014 Caps
- 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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