

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. A force of 10 N is applied to mass X.
 B. The acceleration of mass X is 10 m/s².
 C. The mass of mass X is 1 kg.
 D. The mass of mass X is smaller than the mass of mass Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A force of 10 N is applied to the right and a force of 10 N is applied to the left.
 B. A force of 10 N is applied to the right and a force of 20 N is applied to the left.
 C. A force of 10 N is applied to the right and a force of 10 N is applied to the left.
 D. A force of 10 N is applied to the right and a force of 10 N is applied to the left.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is in free fall and is not touching the ground.
 B. An object is in free fall and is not touching the ground.
 C. An object is in free fall and is not touching the ground.
 D. An object is in free fall and is not touching the ground.
- 1.4 The inertia of an object ...
- A. is a measure of its mass.
 B. is a measure of its weight.
 C. is a measure of its volume.
 D. is a measure of its density.
- 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?

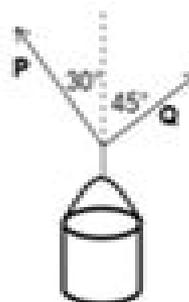
- A. r
 B. $2r$
 C. $4r$
 D. $16r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The net force is 100N.
 B. The net force is 0N.
 C. The net force is 100N.
 D. The net force is 100N.

[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 Calculate the resultant force. (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 Resultant force. (4)
- 2.2.2 Resultant force. (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 Physical Science Exam Paper March 2014 Caps

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

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