

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 upwards with constant acceleration.
B. An object moving upwards with constant velocity.
C. An object moving upwards with constant acceleration.
D. An object moving upwards with constant velocity.
- 1.4 The inertia of an object...
- A. is greater for a heavier object.
B. is greater for an object moving faster.
C. is the resistance to any change in its state of motion.
D. is the force that causes an object to move.
- 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 Resultant of the components of P and Q horizontally. (4)
2.2.2 Resultant of the components of P and Q vertically. (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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Mark Steyvers

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Mark Steyvers.

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Table of Contents Physical Science Paper Grade 11 March

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

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