

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 to the ground with constant acceleration.
C. A car moving with constant velocity on a horizontal road.
D. A car moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving upwards with constant velocity.
B. An object moving upwards with constant acceleration.
C. An object moving upwards with constant velocity.
D. An object moving upwards with constant acceleration.
- 1.4 The inertia of an object...
- A. Is greater in space than on Earth.
B. Depends on the speed of the object.
C. Is the resistance to any 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. (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 force (magnitude and direction). (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

Physical Science Grade 11 March Controlled Test Question Paper

RJ Alexander



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Table of Contents Physical Science Grade 11 March Controlled Test Question Paper

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

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