

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 heavy object has more mass.
B. A light object has more mass.
C. A heavy object has more mass.
D. The mass of an object is directly proportional to its acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A heavy object is at rest.
B. A light object is at rest.
C. A heavy object is moving with a constant velocity.
D. A light object is moving with a constant velocity.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not supported by any surface.
B. An object is not supported by any surface.
C. An object is not supported by any surface.
D. An object is not supported by any surface.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its resistance to change in motion.
C. is a measure of its resistance to change in motion.
D. is a measure of its resistance to change in motion.
- 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. $3r$
D. $4r$

- 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 heavy.
D. The box is too light.

[14]

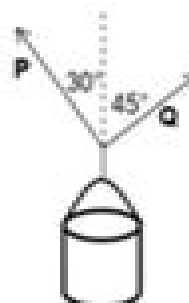
QUESTION 2

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.
2.2.2 Resultant of the components of P and Q vertically.
2.2.3 Resultant of the horizontal components.
2.2.4 Resultant of the vertical components.
2.2.5 Resultant of the forces acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

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Table of Contents Physical Science Grade 11 March Question Papers

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

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