

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 person moving at a constant speed.
B. When the net force acting on an object is constant and not equal to zero.
C. A person accelerating from rest to a high speed in a very short time.
D. A person moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving in a circular path at a constant speed.
B. An object moving at a constant velocity in a straight line above the ground.
C. An object moving in a circular path with a constant speed in a vertical circle.
D. An object accelerating downwards with a constant acceleration of 9.8 m/s^2 .
- 1.4 The inertia of an object ...
- A. It is a scalar quantity.
B. It depends on the speed of the object in motion.
C. It is the tendency of an object to resist a change in its state of motion.
D. It depends on the mass of the object 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. $2r$
B. r
C. $1.5r$
D. $1.2r$
- 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 more than 100N.
C. Friction force is less than 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) acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

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Table of Contents Physical Sciences Grade March 2question Paper

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

5. Accessing Physical Sciences Grade March 2question Paper Free and Paid eBooks
 - Physical Sciences Grade March 2question Paper Public Domain eBooks
 - Physical Sciences Grade March 2question Paper eBook Subscription Services
 - Physical Sciences Grade March 2question Paper Budget-Friendly Options
6. Navigating Physical Sciences Grade March 2question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Sciences Grade March 2question Paper Compatibility with Devices
 - Physical Sciences Grade March 2question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Sciences Grade March 2question Paper
 - Highlighting and Note-Taking Physical Sciences Grade March 2question Paper
 - Interactive Elements Physical Sciences Grade March 2question Paper
8. Staying Engaged with Physical Sciences Grade March 2question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Sciences Grade March 2question Paper
9. Balancing eBooks and Physical Books Physical Sciences Grade March 2question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Sciences Grade March 2question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Sciences Grade March 2question Paper
 - Setting Reading Goals Physical Sciences Grade March 2question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Sciences Grade March 2question Paper
 - Fact-Checking eBook Content of Physical Sciences Grade March 2question 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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