

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 X is greater than mass Y.
B. The acceleration of mass X is greater than the acceleration of mass Y.
C. Mass Y is greater than mass X.
D. The acceleration of mass X is greater than the acceleration 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 car moving with a constant speed.
B. A car moving with a constant speed in a circular path.
C. A car moving with a constant speed in a straight line.
D. A car moving with a constant speed in a circular path.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not acted upon by any forces.
B. An object is not acted upon by any forces.
C. An object is not acted upon by any forces.
D. An object is not acted upon by any forces.
- 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. $2r$
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 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 force 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 Common Question Paper For The 24th March 24

1. Understanding the eBook Physical Science Common Question Paper For The 24th March 24
 - The Rise of Digital Reading Physical Science Common Question Paper For The 24th March 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Common Question Paper For The 24th March 24
 - 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 Common Question Paper For The 24th March 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Common Question Paper For The 24th March 24
 - Personalized Recommendations
 - Physical Science Common Question Paper For The 24th March 24 User Reviews and Ratings
 - Physical Science Common Question Paper For The 24th March 24 and Bestseller Lists
5. Accessing Physical Science Common Question Paper For The 24th March 24 Free and Paid eBooks
 - Physical Science Common Question Paper For The 24th March 24 Public Domain eBooks
 - Physical Science Common Question Paper For The 24th March 24 eBook Subscription Services
 - Physical Science Common Question Paper For The 24th March 24 Budget-Friendly Options
6. Navigating Physical Science Common Question Paper For The 24th March 24 eBook Formats

- ePub, PDF, MOBI, and More
 - Physical Science Common Question Paper For The 24th March 24 Compatibility with Devices
 - Physical Science Common Question Paper For The 24th March 24 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Common Question Paper For The 24th March 24
 - Highlighting and Note-Taking Physical Science Common Question Paper For The 24th March 24
 - Interactive Elements Physical Science Common Question Paper For The 24th March 24
 8. Staying Engaged with Physical Science Common Question Paper For The 24th March 24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Common Question Paper For The 24th March 24
 9. Balancing eBooks and Physical Books Physical Science Common Question Paper For The 24th March 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Common Question Paper For The 24th March 24
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science Common Question Paper For The 24th March 24
 - Setting Reading Goals Physical Science Common Question Paper For The 24th March 24
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science Common Question Paper For The 24th March 24
 - Fact-Checking eBook Content of Physical Science Common Question Paper For The 24th March 24
 - 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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