

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. 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 smooth.
D. The box is too rough.

[14]

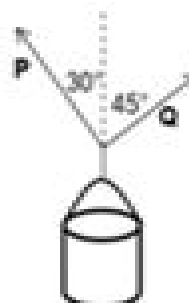
QUESTION 2

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]

Grade 11 Paper 1 March Controlled Test Physical Science

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Table of Contents Grade 11 Paper 1 March Controlled Test Physical Science

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

6. Navigating Grade 11 Paper 1 March Controlled Test Physical Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 11 Paper 1 March Controlled Test Physical Science Compatibility with Devices
 - Grade 11 Paper 1 March Controlled Test Physical Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 11 Paper 1 March Controlled Test Physical Science
 - Highlighting and Note-Taking Grade 11 Paper 1 March Controlled Test Physical Science
 - Interactive Elements Grade 11 Paper 1 March Controlled Test Physical Science
8. Staying Engaged with Grade 11 Paper 1 March Controlled Test Physical Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 11 Paper 1 March Controlled Test Physical Science
9. Balancing eBooks and Physical Books Grade 11 Paper 1 March Controlled Test Physical Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 11 Paper 1 March Controlled Test Physical Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 11 Paper 1 March Controlled Test Physical Science
 - Setting Reading Goals Grade 11 Paper 1 March Controlled Test Physical Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 11 Paper 1 March Controlled Test Physical Science
 - Fact-Checking eBook Content of Grade 11 Paper 1 March Controlled Test Physical Science
 - 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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