

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 heavy object has more weight.
C. A heavy object has more volume.
D. The heavy object has a smaller 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 accelerating.
B. When the net force acting on the object is zero.
C. A heavy object is moving with a constant velocity.
D. A heavy object is moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.
B. An object is not experiencing any forces, but is accelerating towards the ground.
C. An object is not experiencing any forces, but is moving with a constant velocity.
D. An object is not experiencing any forces, but is accelerating towards the ground.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its weight.
C. is a measure of its volume.
D. is a measure of its density.
- 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 big.
D. The box is too small.

[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.
2.2.2 Vertical components of P and Q respectively.
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 Grade11 Physical Science Paper 1and2 March Test

1. Understanding the eBook Grade11 Physical Science Paper 1and2 March Test
 - The Rise of Digital Reading Grade11 Physical Science Paper 1and2 March Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade11 Physical Science Paper 1and2 March Test
 - 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 Grade11 Physical Science Paper 1and2 March Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade11 Physical Science Paper 1and2 March Test
 - Personalized Recommendations

- Grade11 Physical Science Paper 1and2 March Test User Reviews and Ratings
- Grade11 Physical Science Paper 1and2 March Test and Bestseller Lists
- 5. Accessing Grade11 Physical Science Paper 1and2 March Test Free and Paid eBooks
 - Grade11 Physical Science Paper 1and2 March Test Public Domain eBooks
 - Grade11 Physical Science Paper 1and2 March Test eBook Subscription Services
 - Grade11 Physical Science Paper 1and2 March Test Budget-Friendly Options
- 6. Navigating Grade11 Physical Science Paper 1and2 March Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade11 Physical Science Paper 1and2 March Test Compatibility with Devices
 - Grade11 Physical Science Paper 1and2 March Test Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Grade11 Physical Science Paper 1and2 March Test
 - Highlighting and Note-Taking Grade11 Physical Science Paper 1and2 March Test
 - Interactive Elements Grade11 Physical Science Paper 1and2 March Test
- 8. Staying Engaged with Grade11 Physical Science Paper 1and2 March Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade11 Physical Science Paper 1and2 March Test
- 9. Balancing eBooks and Physical Books Grade11 Physical Science Paper 1and2 March Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade11 Physical Science Paper 1and2 March Test
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade11 Physical Science Paper 1and2 March Test
 - Setting Reading Goals Grade11 Physical Science Paper 1and2 March Test
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade11 Physical Science Paper 1and2 March Test
 - Fact-Checking eBook Content of Grade11 Physical Science Paper 1and2 March Test

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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