

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 constant velocity.
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.
C. An object moving in a circular path with a constant velocity.
D. An object moving in a circular path with a constant acceleration.
- 1.4 The inertia of an object...
- A. Is greater in a vacuum than in air.
B. Depends on the speed of the object.
C. Is the resistance to any change in its state of motion.
D. Depends on the mass of the object.
- 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. 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. (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 of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

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Table of Contents Physical Science 2march Question Paper

1. Understanding the eBook Physical Science 2march Question Paper
 - The Rise of Digital Reading Physical Science 2march Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science 2march Question 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 Science 2march Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science 2march Question Paper
 - Personalized Recommendations
 - Physical Science 2march Question Paper User Reviews and Ratings
 - Physical Science 2march Question Paper and Bestseller Lists
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- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Physical Science 2march Question Paper
 - Interactive Elements Physical Science 2march Question Paper
- 8. Staying Engaged with Physical Science 2march Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science 2march Question Paper
- 9. Balancing eBooks and Physical Books Physical Science 2march Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science 2march Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science 2march Question Paper
 - Setting Reading Goals Physical Science 2march Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science 2march Question Paper
 - Fact-Checking eBook Content of Physical Science 2march Question Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

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