

## 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 force of 10 N acts on X.  
B. The acceleration of X is 10 m/s<sup>2</sup>.  
C. The mass of X is 10 kg.  
D. The mass of X is less than the mass of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
- A. A force of 10 N acts on an object.  
B. When the only force acting on an object is its weight.  
C. Two forces of 10 N act on an object in opposite directions.  
D. Two forces of 10 N act on an object at right angles to each other.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not acted on by any forces.  
B. An object is not acted on by any forces except its weight.  
C. An object is not acted on by any forces except the gravity of another object.  
D. An object is not acted on by any forces except the gravity of the Earth.
- 1.4 The inertia of an object ...
- A. is a measure of its mass.  
B. is a measure of its speed.  
C. is a measure of its acceleration.  
D. is a measure of its velocity.
- 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 100 N 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 force diagram. (2)
- 2.2 The tension in rope P is 100 N at an angle of 30° to the vertical and the tension in Q is 51,52 N 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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**BM King**



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## **Table of Contents Grade Physical Sciences March 2question Paper**

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

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