

## 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 car moving with constant acceleration.  
B. A ball falling from the sky to the ground with constant acceleration.  
C. A car moving with constant velocity on a horizontal road.  
D. A car moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving upwards with constant velocity.  
B. An object moving upwards with constant acceleration.  
C. An object moving upwards with constant velocity or downwards with constant acceleration.  
D. An object moving downwards with constant acceleration.
- 1.4 The inertia of an object...
- A. is greater in space than on Earth.  
B. depends on the speed of the object in the space.  
C. is the resistance to any change in its state of motion.  
D. depends on the mass of the object in the space.
- 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 friction force is equal to 100N.  
B. The friction force is more than 100N.  
C. The normal force is less than 100N.  
D. None of the above.

[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 Find the resultant. (2)
- 2.2 The tension in rope P is 100N at an angle of  $30^\circ$  to the vertical and the tension in Q is 51,52N at  $45^\circ$  to the vertical.



Calculate the **MAGNITUDE** of the:

- 2.2.1 Resultant components of P and Q horizontally. (4)  
2.2.2 Resultant components of P and Q vertically. (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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**Judd E. Hollander**



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## **Table of Contents Grade 11 Physical Science Question Papers And Memos**

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

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