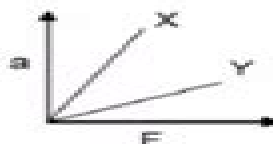


GRADE 11 PHYSICAL SCIENCES MARCH TEST

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 X has a greater mass.
 - B The bodies have equal mass.
 - C Y has a greater mass.
 - D The mass would not affect the gradient of the graph.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.
- A An object moving with constant acceleration.
 - B When the only force acting on the object is gravitational acceleration.
 - C An object that undergoes equal displacements every second.
 - D An object is moving with increasing acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moving at constant velocity upwards from the ground.
 - B An object moving at constant velocity downwards from the ground.
 - C An object that is accelerated upwards away from the ground by a constant applied force.
 - D An object accelerates downwards towards the Earth with an acceleration of $9.8\text{m}\cdot\text{s}^{-2}$.
- 1.4 The inertia of an object ...
- A is greater if its mass is smaller.
 - B increases as the applied force on the object increases.
 - C is the resistance to any change in its state of motion.
 - D increases as the frictional force on the object increases.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of

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Table of Contents Physical Science March 2014 Question Paper

1. Understanding the eBook Physical Science March 2014 Question Paper
 - The Rise of Digital Reading Physical Science March 2014 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science March 2014 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 March 2014 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science March 2014 Question Paper
 - Personalized Recommendations
 - Physical Science March 2014 Question Paper User Reviews and Ratings
 - Physical Science March 2014 Question Paper and Bestseller Lists
5. Accessing Physical Science March 2014 Question Paper Free and Paid eBooks
 - Physical Science March 2014 Question Paper Public Domain eBooks

- Physical Science March 2014 Question Paper eBook Subscription Services
- Physical Science March 2014 Question Paper Budget-Friendly Options
- 6. Navigating Physical Science March 2014 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science March 2014 Question Paper Compatibility with Devices
 - Physical Science March 2014 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science March 2014 Question Paper
 - Highlighting and Note-Taking Physical Science March 2014 Question Paper
 - Interactive Elements Physical Science March 2014 Question Paper
- 8. Staying Engaged with Physical Science March 2014 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science March 2014 Question Paper
- 9. Balancing eBooks and Physical Books Physical Science March 2014 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science March 2014 Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science March 2014 Question Paper
 - Setting Reading Goals Physical Science March 2014 Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science March 2014 Question Paper
 - Fact-Checking eBook Content of Physical Science March 2014 Question 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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