



GRADE 11 PHYSICAL SCIENCE 5 MARK TEST

QUESTION 1

Various options are provided for possible answers to the following questions. Choose the correct answer and enter (A), (B), (C) or (D) next to the QUESTION NUMBER (1-10) on your final paper. Example: 1. D

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses Q and P.



Select one of the following statements is true?

- A. $\frac{1}{2}mv^2$ is the kinetic energy.
 B. $\frac{1}{2}mv^2$ is the momentum.
 C. mv is the kinetic energy.
 D. $\frac{1}{2}mv^2$ is the momentum.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
 A. A truck moving at a constant speed.
 B. A car moving from rest to a higher speed.
 C. A ball moving at a constant speed in a circular path.
 D. A car accelerating from rest to a higher speed.
- 1.3 Select all the statements below that describe the resultant?
 A. An object moving with constant velocity has a resultant force.
 B. An object moving with constant velocity has a resultant force of 0.
 C. An object moving with constant velocity has a resultant force of 1000 N.
 D. An object moving with constant velocity has a resultant force of 0 N.
- 1.4 The inertia of an object ...
 A. is equal to its weight.
 B. increases as the speed of the object increases.
 C. is a resistance to any change in its state of motion.
 D. is a force that opposes any change in motion.
- 1.5 An object has a weight W_1 on Earth. In a distance, in terms of the value of the Earth's g , will the object be if the weight is $\frac{1}{16}$ of its weight (W_1) on the

surface of the Earth?

- A. 5
 B. 4
 C. $\frac{1}{16}$
 D. $\frac{1}{4}$
- 1.6 A box is pulled forward with a force of 100 N but does not move. A possible reason for this is that:
 A. The applied force is too small.
 B. The applied force is opposite to the direction of motion.
 C. The weight of the box is 100 N.
 D. There is no friction.

[10]

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 The bucket is stationary. (2)
- 2.2 The tension in rope P is 120 N at an angle of 30° to the vertical and the tension in Q is 70 N at 45° to the vertical.



Calculate the RESULTANT of the

- 2.2.1 Resultant tension in ropes P and Q. (4)
 2.2.2 Resultant tension in ropes 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 two ropes acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (5)

[19]

Physical Science Paper Grd 11

David Baud



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Table of Contents Physical Science Paper Grd 11

1. Understanding the eBook Physical Science Paper Grd 11
 - The Rise of Digital Reading Physical Science Paper Grd 11
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper Grd 11
 - 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 Paper Grd 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper Grd 11
 - Personalized Recommendations
 - Physical Science Paper Grd 11 User Reviews and Ratings
 - Physical Science Paper Grd 11 and Bestseller Lists
5. Accessing Physical Science Paper Grd 11 Free and Paid eBooks
 - Physical Science Paper Grd 11 Public Domain eBooks

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