



## 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?

- Q is a smaller mass than P.
  - P is a smaller mass than Q.
  - Q is a larger mass than P.
  - P is a larger mass than Q.
- In which of the following cases would the resultant force acting on an object be equal to 0 N?

  - When a car is moving with a constant velocity.
  - When a car is moving with a constant acceleration.
  - When a car is moving with a constant velocity and a constant acceleration.
  - When a car is moving with a constant velocity and a constant acceleration.
- Select all the statements below that describe the resultant?

  - An object moving with a constant velocity and a constant acceleration.
  - An object moving with a constant velocity and a constant acceleration.
  - An object moving with a constant velocity and a constant acceleration.
  - An object moving with a constant velocity and a constant acceleration.
- The inertia of an object...

  - Is a measure of its resistance to change in motion.
  - Is a measure of its resistance to change in motion.
  - Is a measure of its resistance to change in motion.
  - Is a measure of its resistance to change in motion.
- An object has a weight of 10 N on Earth. What is its weight on the Moon?

  - 10 N
  - 2 N
  - 5 N
  - 10 N

surface of the Earth?

- 10 N
- 2 N
- 5 N
- 10 N

- 1.2 A box is pulled forward with a force of 100 N but does not move. A possible reason for this is that:
- The applied force is less than the friction force.
  - The applied force is equal to the friction force.
  - The applied force is more than the friction force.
  - The applied force is less than the friction force.

(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.

- The bucket is stationary.
- The bucket is moving with a constant velocity.
- The bucket is moving with a constant acceleration.
- The bucket is moving with a constant acceleration.

(2)



Calculate the RESULTANT of the:

- 211 Resultant of the two ropes.
- 212 Resultant of the two ropes.
- 213 Resultant of the horizontal components.
- 214 Resultant of the vertical components.
- 215 Resultant of the two ropes.

(4)

(4)

(4)

(4)

(4)

- 2.2 Calculate the resultant of the two ropes.

(4)

(4)

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### **Table of Contents Physical Scienc Grade Common Paper For March24**

1. Understanding the eBook Physical Scienc Grade Common Paper For March24
  - The Rise of Digital Reading Physical Scienc Grade Common Paper For March24
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Scienc Grade Common Paper For March24
  - 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 Scienc Grade Common Paper For March24
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Scienc Grade Common Paper For March24
  - Personalized Recommendations
  - Physical Scienc Grade Common Paper For March24 User Reviews and Ratings
  - Physical Scienc Grade Common Paper For March24 and Bestseller Lists

5. Accessing Physical Scienc Grade Common Paper For March24 Free and Paid eBooks
  - Physical Scienc Grade Common Paper For March24 Public Domain eBooks
  - Physical Scienc Grade Common Paper For March24 eBook Subscription Services
  - Physical Scienc Grade Common Paper For March24 Budget-Friendly Options
6. Navigating Physical Scienc Grade Common Paper For March24 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Scienc Grade Common Paper For March24 Compatibility with Devices
  - Physical Scienc Grade Common Paper For March24 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Scienc Grade Common Paper For March24
  - Highlighting and Note-Taking Physical Scienc Grade Common Paper For March24
  - Interactive Elements Physical Scienc Grade Common Paper For March24
8. Staying Engaged with Physical Scienc Grade Common Paper For March24
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Scienc Grade Common Paper For March24
9. Balancing eBooks and Physical Books Physical Scienc Grade Common Paper For March24
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Scienc Grade Common Paper For March24
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Scienc Grade Common Paper For March24
  - Setting Reading Goals Physical Scienc Grade Common Paper For March24
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Scienc Grade Common Paper For March24
  - Fact-Checking eBook Content of Physical Scienc Grade Common Paper For March24
  - 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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