

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 the line of X is greater than the slope of the line 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 is moving with a constant speed.
B. A ball is thrown upwards and is at its maximum height.
C. A car is moving with a constant speed in a circular path.
D. A car is moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.
B. An object is moving at a constant velocity.
C. An object is not experiencing any forces.
D. An object is moving with a constant velocity.
- 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 momentum.
- 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?

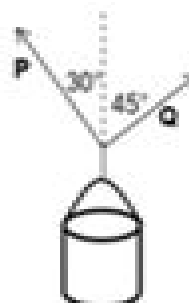
- A. r
B. $2r$
C. $3r$
D. $4r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too smooth.
D. The box is too rough.

[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 100N at an angle of 30° to the vertical and the tension in Q is 51,52N 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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Royal Society of Arts (Great Britain),1877 **Journal of the Royal Society of Arts** Royal Society of Arts (Great Britain),1883 Public Science and Public Policy in Victorian England Roy M. MacLeod,2024-10-28 This book comprises nine essays selected from Roy MacLeod s work on the social history of Victorian science and is concerned with the analysis of science as a responsibility and opportunity for 19th century statecraft It illuminates the origins of environmental regulation the creation of scientific inspectorates the reform of scientific institutions and the association of government with the patronage and support of fundamental research Above all it explores several of the ways in which British scientists became statesmen in disguise negotiating interests and professional goals by association with the interests of the state as provider and agent of efficiency in education and in the application of research **Journal of the Society of Arts** ,1893 **Journal of the Royal Society of Arts** ,1884 **Creational Theology and the History of Physical Science: The Creationist Tradition from Basil to Bohr** Christopher B. Kaiser,2021-12-06 This volume documents the role of creational theology in discussions of natural philosophy medicine and technology from the Hellenistic period to the early twentieth century Four principal themes are the comprehensibility of the world the unity of heaven and earth the relative autonomy of nature and the ministry of healing Successive chapters focus on Greco Roman science medieval Aristotelianism early modern science the heritage of Isaac Newton and post Newtonian mechanics The volume will interest historians of science and historians of the idea of creation It simultaneously details the persistence of tradition and the emergence of modernity and provides the historical background for later discussions of creation and evolution **Appendix to the Journals of the House of Representatives of New Zealand** New Zealand. Parliament. House of Representatives,1879 Parliamentary Papers Great Britain. Parliament. House of Commons,1857 **House of Commons Debates, Official Report** Canada. Parliament. House of Commons,1975 *The Ecclesiastical gazette, or, Monthly register of the affairs of the Church of England* ,1869
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Table of Contents Physical Science 2march Question Paper

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

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 - Physical Science 2march Question Paper eBook Subscription Services
 - Physical Science 2march Question Paper Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Physical Science 2march Question Paper Compatibility with Devices
 - Physical Science 2march Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science 2march Question Paper
 - Highlighting and Note-Taking Physical Science 2march Question Paper
 - Interactive Elements Physical Science 2march Question Paper
8. Staying Engaged with Physical Science 2march Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science 2march Question Paper
9. Balancing eBooks and Physical Books Physical Science 2march Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science 2march Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science 2march Question Paper
 - Setting Reading Goals Physical Science 2march Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science 2march Question Paper
 - Fact-Checking eBook Content of Physical Science 2march Question Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

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- Interactive and Gamified eBooks

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