

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. A heavy object has more mass.
B. A light object has more mass.
C. A heavy object has more mass.
D. The mass of an object is directly proportional to its acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A heavy object is at rest.
B. A light object is at rest.
C. A heavy object is at rest.
D. A light object is at rest.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not acted upon by any forces.
B. An object is not acted upon by any forces.
C. An object is not acted upon by any forces.
D. An object is not acted upon by any forces.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its mass.
C. is a measure of its mass.
D. is a measure of its mass.
- 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 heavy.
D. The box is too light.

[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 The bucket is stationary.

(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 Resultant of the components of P and Q horizontally.
2.2.2 Resultant of the components of P and Q vertically.
2.2.3 Resultant of the horizontal components.
2.2.4 Resultant of the vertical components.
2.2.5 Resultant of the forces acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

Physical Science Grade 1march Controlled Test Paper With Memo

F Rizvi



Physical Science Grade 1march Controlled Test Paper With Memo:

The Top Books of the Year Physical Science Grade 1march Controlled Test Paper With Memo The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year.

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Physical Science Grade 1march Controlled Test Paper With Memo : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/data/Resources/fetch.php/Rifle%20Competency%20Manual%20Za.pdf>

Table of Contents Physical Science Grade 1march Controlled Test Paper With Memo

1. Understanding the eBook Physical Science Grade 1march Controlled Test Paper With Memo
 - The Rise of Digital Reading Physical Science Grade 1march Controlled Test Paper With Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 1march Controlled Test Paper With Memo
 - 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 Grade 1march Controlled Test Paper With Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 1march Controlled Test Paper With Memo
 - Personalized Recommendations
 - Physical Science Grade 1march Controlled Test Paper With Memo User Reviews and Ratings
 - Physical Science Grade 1march Controlled Test Paper With Memo and Bestseller Lists
5. Accessing Physical Science Grade 1march Controlled Test Paper With Memo Free and Paid eBooks
 - Physical Science Grade 1march Controlled Test Paper With Memo Public Domain eBooks
 - Physical Science Grade 1march Controlled Test Paper With Memo eBook Subscription Services
 - Physical Science Grade 1march Controlled Test Paper With Memo Budget-Friendly Options
6. Navigating Physical Science Grade 1march Controlled Test Paper With Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade 1march Controlled Test Paper With Memo Compatibility with Devices
 - Physical Science Grade 1march Controlled Test Paper With Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade 1march Controlled Test Paper With Memo
 - Highlighting and Note-Taking Physical Science Grade 1march Controlled Test Paper With Memo
 - Interactive Elements Physical Science Grade 1march Controlled Test Paper With Memo

8. Staying Engaged with Physical Science Grade 1march Controlled Test Paper With Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade 1march Controlled Test Paper With Memo
9. Balancing eBooks and Physical Books Physical Science Grade 1march Controlled Test Paper With Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade 1march Controlled Test Paper With Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade 1march Controlled Test Paper With Memo
 - Setting Reading Goals Physical Science Grade 1march Controlled Test Paper With Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade 1march Controlled Test Paper With Memo
 - Fact-Checking eBook Content of Physical Science Grade 1march Controlled Test Paper With Memo
 - 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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