

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 X is greater than the slope 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 moving with a constant speed.
B. A ball falling from the sky to the ground with a constant acceleration.
C. A car moving with a constant speed in a straight line.
D. A car 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 in a straight line.
C. An object is not experiencing any forces other than the gravity of the Earth.
D. An object is moving with a constant speed in a straight line.
- 1.4 The inertia of an object...
- A. is greater in a moving object.
B. depends on the speed of the object.
C. is the resistance to any change in its state of motion.
D. depends on the mass of the object.
- 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?

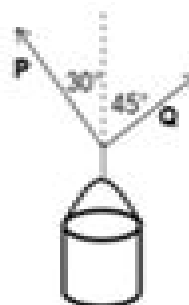
- A. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[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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Grade 1physical Science March Common Paper 24: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Grade 1physical Science March Common Paper 24 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Grade 1physical Science March Common Paper 24 : 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 crafts a tale of resilience, survival, and the transformative power of nature, entrancing 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 compelling 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 guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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