



GRADE 11 PHYSICAL SCIENCE'S MARCH 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 test paper. Example: 1. D

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



Select one of the following statements is true?

- Line X is stiffer than line Y.
 - Line Y is stiffer than line X.
 - Line X is stiffer than line Y.
 - Line Y is stiffer than line X.
- In which of the following cases would the resultant force acting on an object be equal to 0 N?

 - When a body moves with a constant velocity.
 - When a body moves with a constant acceleration.
 - When a body moves with a constant velocity and a constant acceleration.
 - When a body moves with a constant acceleration.
- Select all the statements below that describe the resultant?

 - An object moving with a constant velocity, with a resultant.
 - An object moving with a constant velocity, with a resultant equal to 0.
 - An object moving with a constant acceleration, with a resultant equal to 0.
 - An object moving with a constant acceleration, with a resultant.
- The inertia of an object...

 - Is equal to its weight.
 - Increases as the speed of the object increases.
 - Is independent of the speed of the object.
 - Increases as the mass of the object increases.
- An object has a weight W_1 on Earth. What distance, in terms of the radius of the Earth (r), will the object be if the weight is $1/16$ of this weight (W_1) on the

surface of the Earth?

- $4r$
 - r
 - $1/16r$
 - $16r$
- A box is pulled forward with a force of 100N but does not move. A possible reason for this is that:

 - The applied force is too small.
 - The applied force is equal to 100N.
 - The weight of the box is 100N.
 - The weight of the box is 100N.

[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 tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 100N at 45° to the vertical.

[2]



Calculate the RESULTANT of the

- Net force on the bucket.
 - The two ropes.
 - Resultant of the horizontal components.
 - Resultant of the vertical components.
 - Net force on the bucket when the bucket is moving.
- Calculate the tension in the ropes.

[4]

[4]

[5]

[5]

[5]

[5]

[10]

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