



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 (1.1-1.5) on your test paper. Example: 1.1 (B)

- 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 speed in a circular path.
 - When a body moves with a constant speed in a straight line.
- Select all the statements below that describe the resultant?

 - An object moving with a constant velocity has a resultant of 0 N.
 - An object moving with a constant acceleration has a resultant of 0 N.
 - An object moving with a constant speed in a circular path has a resultant of 0 N.
 - An object moving with a constant speed in a straight line has a resultant of 0 N.
- The inertia of an object...

 - Depends on its mass.
 - Depends on its velocity.
 - Depends on its acceleration.
 - Depends on its displacement.
- An astronaut has a weight W_1 on Earth. He calculates it in terms of the value of the Earth's g . Will the astronaut be if his weight is 0.14 of his weight (W_1) on the

surface of the Earth?

- Yes
 - No
 - Yes, if $g = 1.4$
 - No, if $g = 0.14$
- 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 100 N.
 - The applied force is equal to 100 N.
 - The weight of the box is 100 N.
 - The weight of the box is less than 100 N.

[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 100 N at an angle of 30° to the vertical and the tension in Q is 70 N at 45° to the vertical.

[2]



Calculate the RESULTANT of the

- Net force acting on the bucket.
 - Force components from P and Q horizontally.
 - Resultant of the horizontal components.
 - Resultant of the vertical components.
 - Net force acting on the bucket by the ropes.
- Calculate the tension in rope Q.

[4]

[4]

[5]

[5]

[5]

[5]

[20]

Memo Paper 2 Grade 11 Physics

Yi-Tong Ma

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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