



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 A and B.



Select one of the following statements is true?

- A. Acceleration is directly proportional to mass.

B. Acceleration is inversely proportional to mass.

C. Acceleration is directly proportional to force.

D. Acceleration is inversely proportional to force.
- In which of the following cases would the resultant force acting on an object be equal to 0N?

 - When a car is moving with a constant velocity.
 - When a car is moving with a constant acceleration.
 - When a car is moving with a constant velocity and a constant acceleration.
 - When a car is moving with a constant velocity and a constant acceleration.
- Select all the statements below that describe the resultant?

 - An object moving with a constant velocity and a constant acceleration.
 - An object moving with a constant velocity and a constant acceleration.
 - An object moving with a constant velocity and a constant acceleration.
 - An object moving with a constant velocity and a constant acceleration.
- The inertia of an object...

 - Is directly proportional to mass.
 - Is inversely proportional to mass.
 - Is directly proportional to mass.
 - Is inversely proportional to mass.
- An object has a weight of 10 N on Earth. What is the weight of the object on the Moon?

 - 10 N
 - 2 N
 - 5 N
 - 10 N

surface of the Earth?

- 10 N
- 2 N
- 5 N
- 10 N

- 1.5. 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 less than the friction force.
 - The applied force is equal to the friction force.
 - The applied force is more than the friction force.
 - The applied force is less than the friction force.

[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 resultant force is 0 N.
- The resultant force is 100 N.
- The resultant force is 200 N.
- The resultant force is 300 N.

[2]



Calculate the RESULTANT of the:

211. Resultant of the two forces acting on the bucket.
212. Resultant of the two forces acting on the bucket.
213. Resultant of the horizontal components.
214. Resultant of the vertical components.
215. Resultant of the two forces acting on the bucket.

[4]

[4]

[5]

[5]

[5]

- 2.5. Calculate the resultant of the forces.

[10]

[10]

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Robert R. Redfield



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