



GRADE 11 PHYSICAL SCIENCE 5 MARK 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 final paper. Example: 1. D

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



Select one of the following statements is true?

- A. $\frac{1}{2}mv^2$ is the kinetic energy.
 B. $\frac{1}{2}mv^2$ is the momentum.
 C. mv is the kinetic energy.
 D. $\frac{1}{2}mv^2$ is the momentum.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
 A. A truck moving at a constant speed.
 B. A car moving from rest to a higher speed.
 C. A ball moving upwards with a higher velocity.
 D. A car moving from rest to a higher speed.
- 1.3 Select all the statements below that describe the displacement?
 A. An object moving in a straight line with a constant velocity.
 B. An object moving in a circular path with a constant speed.
 C. An object moving in a circular path with a constant velocity.
 D. An object moving in a straight line with a constant acceleration.
- 1.4 The inertia of an object ...
 A. is equal to its mass.
 B. increases as the speed of the object increases.
 C. is a vector quantity.
 D. is a scalar quantity.
- 1.5 An object has a weight W_1 on Earth. In a distance, in terms of the value of the Earth's g , will the object be if the weight is $\frac{1}{16}$ of its weight (W_1) on the

surface of the Earth?

- A. 75
 B. 4
 C. 1/4
 D. 1/16
- 1.6 A box is pulled forward with a force of 100 N but does not move. A possible reason for this is that:
 A. The applied force is too small.
 B. The applied force is equal to the weight.
 C. The applied force is less than 100 N.
 D. There is no friction.

[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.

- 2.1 The bucket is stationary. (2)
- 2.2 The tension in rope P is 120 N at an angle of 30° to the vertical and the tension in Q is 70 N at 45° to the vertical.



Calculate the RESULTANT of the:

- 2.2.1 Resultant of the two ropes. (4)
- 2.2.2 Resultant of the two ropes. (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 two ropes. (5)
- 2.3 Calculate the mass of the bucket. (5)

[19]

Physical Science Paper Grd 11

WJ Hussar



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