



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 at a constant speed in a circular path.
 D. A car accelerating from rest to a higher speed.
- 1.3 Select all the statements below that describe the acceleration?
 A. An object moving with constant velocity is accelerating.
 B. An object moving with constant velocity is not accelerating.
 C. An object moving with constant speed but changing direction is accelerating.
 D. An object moving with constant speed in a straight line is accelerating.
- 1.4 The inertia of an object ...
 A. is equal to its weight.
 B. increases as the speed of the object increases.
 C. is a resistance to any change in its state of motion.
 D. is the same for all objects of the same mass.
- 1.5 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 the weight is $\frac{1}{16}$ of his weight (W_1) on the

surface of the Earth?

- A. No
 B. Yes
 C. Yes, but the acceleration is $\frac{1}{16}g$
 D. Yes, but the acceleration is $16g$
- 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 opposite to the direction of motion.
 C. The weight of the box is 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 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.
 2.2.2 Resultant of the two ropes and the weight.
 2.2.3 Resultant of the horizontal components.
 2.2.4 Resultant of the vertical components.
 2.2.5 Resultant of the two ropes and the weight.
- 2.3 Calculate the mass of the bucket.

[10]

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