

GRADE 11 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.6) on your folio paper. Example 1.7: D.

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



Which one of the following statements is true?

- A. A freely falling object.
B. An object moving upwards at 10 m/s .
C. An object falling from rest.
D. The velocity increases at the rate of 9.8 m/s^2 every second.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A person moving at a constant speed.
B. When the net force acting on the object is constant and not equal to zero.
C. An object falling from rest at a height of 100 m above the ground.
D. An object moving upwards with a constant acceleration of 10 m/s^2 .
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving upwards with a constant velocity.
B. An object moving at a constant velocity downwards towards the ground.
C. An object moving upwards with a constant velocity towards the ground.
D. An object moving downwards with a constant velocity towards the ground.
- 1.4 The inertia of an object...
- A. Is greater in a vacuum than in air.
B. Depends on the speed of the object in motion.
C. Is the resistance to any change in its state of motion.
D. Depends on the mass of the object in motion.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (F_g) on the

surface of the Earth?

- A. $2r$
B. r
C. $1.5r$
D. $0.5r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:

- A. The friction force is greater than 100N.
B. The friction force is less than 100N.
C. The normal force is less than 100N.
D. None of the above.

[14]

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 Draw the free-body diagram.

(2)

- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Horizontal components of P and Q respectively.
2.2.2 Vertical components of P and Q respectively.
2.2.3 Resultant of the horizontal components.
2.2.4 Resultant of the vertical components.
2.2.5 Resultant force (magnitude and direction) acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

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