

## 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 heavy object has more mass.  
B. A light object has more mass.  
C. A heavy object has more mass.  
D. The mass of an object is directly proportional to its acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A car moving at a constant speed.  
B. A car moving at a constant speed in a circular path.  
C. A car moving at a constant speed in a straight line.  
D. A car moving at a constant speed in a circular path.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not acted upon by any forces.  
B. An object is not acted upon by any forces.  
C. An object is not acted upon by any forces.  
D. An object is not acted upon by any forces.
- 1.4 The inertia of an object...
- A. is a measure of its mass.  
B. is a measure of its resistance to change in motion.  
C. is a measure of its resistance to change in motion.  
D. is a measure of its resistance to change 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 box is too heavy.  
B. The box is too light.  
C. The box is too heavy.  
D. The box is too light.

[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  $30^\circ$  to the vertical and the tension in Q is 51,52N at  $45^\circ$  to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Resultant of the components of P and Q horizontally.  
2.2.2 Resultant of the components of P and Q vertically.  
2.2.3 Resultant of the horizontal components.  
2.2.4 Resultant of the vertical components.  
2.2.5 Resultant of the forces acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

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