

## 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. Mass of X is greater than mass of Y.  
B. Acceleration of X is greater than acceleration of Y.  
C. Mass of Y is greater than mass of X.  
D. The slope of X is greater than the slope of Y.
- 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 an object is constant and not equal to zero.  
C. A person accelerating from rest to a higher speed in a very short time.  
D. A person moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving in a circular path at a constant speed.  
B. An object moving at a constant velocity in a straight line above the ground.  
C. An object moving in a circular path with a constant speed in a vertical circle.  
D. An object accelerating downwards with a constant acceleration of  $9.8 \text{ m/s}^2$ .
- 1.4 The inertia of an object ...
- A. It is a scalar quantity.  
B. It depends on the speed of the object in the direction of motion.  
C. It is the tendency of an object to resist a change in its state of motion.  
D. It depends on the mass of the object and the force applied.
- 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. Friction force is greater than 100N.  
B. Friction force is more than 100N.  
C. Friction 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 Find the resultant. (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 Horizontal components of P and Q respectively. (4)  
2.2.2 Vertical components of P and Q respectively. (4)  
2.2.3 Resultant of the horizontal components. (5)  
2.2.4 Resultant of the vertical components. (5)  
2.2.5 Resultant force (magnitude and direction) on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

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