

## 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  $10 \text{ m/s}$ .  
C. An object falling down.  
D. The weight is smaller than the force of air resistance.
- 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 not equal to zero.  
C. An object falling from a height of 10m and hitting the ground.  
D. An object moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving upwards at a constant speed.  
B. An object moving at a constant velocity above the surface of the Earth.  
C. An object moving upwards at a constant speed from the ground to a height of 10m.  
D. An object moving downwards at a constant speed from a height of 10m to the ground.
- 1.4 The inertia of an object...
- A. It is a measure of its mass.  
B. It is a measure of its speed.  
C. It is a measure of its weight.  
D. It is a measure of its volume.
- 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 equal to 100N.  
B. The friction force is less than 100N.  
C. The friction force is more 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 force 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 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 of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

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