

## 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 force of 10 N is applied to mass X.  
 B. The acceleration of mass X is 10 m/s<sup>2</sup>.  
 C. The mass of mass X is 1 kg.  
 D. The mass of mass X is smaller than the mass of mass Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A force of 10 N is applied to the object.  
 B. When the net force acting on the object is 10 N.  
 C. Two forces of 10 N are applied to the object in opposite directions.  
 D. Two forces of 10 N are applied to the object at right angles.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is in free fall and is not touching the ground.  
 B. An object is in free fall and is not touching the ground.  
 C. An object is in free fall and is not touching the ground.  
 D. An object is in free fall and is not touching the ground.
- 1.4 The inertia of an object ...
- A. is a measure of its mass.  
 B. is a measure of its weight.  
 C. is a measure of its volume.  
 D. is a measure of its density.
- 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.  $r$   
 B.  $2r$   
 C.  $4r$   
 D.  $16r$
- 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 net force is 100N.  
 B. The net force is 0N.  
 C. The net force is 100N.  
 D. The net force is 100N.

[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° to the vertical and the tension in Q is 91,52N at 45° to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Resultant of the two ropes. (4)
- 2.2.2 Resultant of the two ropes. (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 two ropes acting together. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

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