

## 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 the line of X is greater than the slope of the line 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 the 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 is not being pulled or pushed by any force.  
B. An object is moving at a constant velocity in a straight line.  
C. An object is not being pulled or pushed by any force.  
D. An object is not being pulled or pushed by any force.
- 1.4 The inertia of an object ...
- A. Is greater for a heavier object.  
B. Is greater for an object with a larger surface area.  
C. Is the resistance to any change in its state of motion.  
D. Is the same for all objects.
- 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 big.  
D. The box is too small.

[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 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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**Lingsheng Yao**



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