

## 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 acts on mass X.  
B. The acceleration of mass X is 1 m/s<sup>2</sup>.  
C. The mass of mass X is 1 kg.  
D. The mass of mass X is greater 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 0 N?
- A. A force of 10 N acts on mass X.  
B. A force of 10 N acts on mass Y.  
C. A force of 10 N acts on mass X and a force of 10 N acts on mass Y.  
D. A force of 10 N acts on mass X and a force of 10 N acts on mass Y.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is in a state of free fall.  
B. An object is in a state of free fall and is not in contact with the ground.  
C. An object is in a state of free fall and is not in contact with the ground.  
D. An object is in a state of free fall and is not in contact with the ground.
- 1.4 The inertia of an object...
- A. is a measure of its resistance to change in motion.  
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.  $1/2r$   
D.  $1/4r$

- 1.6 A box is pushed forward with a force of 100 N 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 smooth.  
D. The box is too rough.

[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 100 N at an angle of 30° to the vertical and the tension in Q is 51,52 N at 45° 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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**AN Whitehead**



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