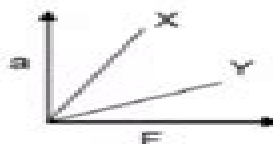


GRADE 11 PHYSICAL SCIENCES MARCH TEST

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 X has a greater mass.
 - B The bodies have equal mass.
 - C Y has a greater mass.
 - D The mass would not affect the gradient of the graph.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.
- A An object moving with constant acceleration.
 - B When the only force acting on the object is gravitational acceleration.
 - C An object that undergoes equal displacements every second.
 - D An object is moving with increasing acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moving at constant velocity upwards from the ground.
 - B An object moving at constant velocity downwards from the ground.
 - C An object that is accelerated upwards away from the ground by a constant applied force.
 - D An object accelerates downwards towards the Earth with an acceleration of $9.8\text{m}\cdot\text{s}^{-2}$.
- 1.4 The inertia of an object ...
- A is greater if its mass is smaller.
 - B increases as the applied force on the object increases.
 - C is the resistance to any change in its state of motion.
 - D increases as the frictional force on the object increases.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of

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