

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/s².
C. The mass of mass X is 1 kg.
D. The mass of mass X is twice 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 an object.
B. When the only force acting on an object is its weight.
C. Two forces of 10 N act on an object in opposite directions.
D. Two forces of 10 N act on an object at right angles to each other.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not being acted on by any forces.
B. An object is not being acted on by any forces except its weight.
C. An object is not being acted on by any forces except the gravity of a nearby object.
D. An object is not being acted on by any forces except the gravity of the Earth.
- 1.4 The inertia of an object ...
- A. is a measure of its mass.
B. is a measure of its speed.
C. is a measure of its acceleration.
D. is a measure of its velocity.
- 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 big.
D. The box is too small.

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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 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)

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