



## GRADE 11 PHYSICAL SCIENCE'S MARCH TEST

### QUESTION 1

Various options are provided for possible answers to the following questions. Choose the correct answer and enter (A), (B), (C) or (D) next to the QUESTION NUMBER (1-10) on your final paper. Example: 1.7. B

- 1.1. The graphs below show the relationship between the net force and the acceleration for two masses Q and P.



Select one of the following statements is true?

- A.  $\frac{1}{P} < \frac{1}{Q}$  and  $\frac{1}{Q} < \frac{1}{P}$
  - B.  $\frac{1}{P} < \frac{1}{Q}$  and  $\frac{1}{Q} > \frac{1}{P}$
  - C.  $\frac{1}{P} > \frac{1}{Q}$  and  $\frac{1}{Q} < \frac{1}{P}$
  - D.  $\frac{1}{P} > \frac{1}{Q}$  and  $\frac{1}{Q} > \frac{1}{P}$
- 1.2. In which of the following cases would the resultant force acting on an object be equal to 0 N?
- A. A truck moving with a constant acceleration
  - B. A car moving from rest with a constant increasing acceleration
  - C. A ball falling with a constant velocity through the air
  - D. A car accelerating with a constant acceleration
- 1.3. Select all the statements below that describe the displacement?
- A. An object moving with a constant velocity with respect to a reference point
  - B. An object moving with a constant velocity with respect to a reference point
  - C. An object moving with a constant velocity with respect to a reference point
  - D. An object moving with a constant velocity with respect to a reference point
- 1.4. The inertia of an object...
- A. Is directly proportional to its mass
  - B. Is directly proportional to its velocity
  - C. Is directly proportional to its acceleration
  - D. Is directly proportional to its displacement
- 1.5. An object has a weight  $W_1$  on Earth. Take distance, in terms of the radius of the Earth as,  $\frac{1}{4}$  of the weight is  $\frac{1}{16}$  of the weight of  $W_1$  on the

surface of the Earth?

- A. 1/4
  - B. 1/16
  - C. 1/4
  - D. 1/16
- 1.6. A box is pulled forward with a force of 100 N but does not move. A possible reason for this is that:
- A. The applied force is less than the friction force
  - B. The applied force is equal to the friction force
  - C. The applied force is more than the friction force
  - D. The applied force is less than the friction force

[10]

### 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. The bucket is stationary.
- 2.2. The tension in rope P is 100 N at an angle of  $30^\circ$  to the vertical and the tension in Q is 100 N at  $45^\circ$  to the vertical.



Calculate the RESULTANT of the

- 2.2.1. Resultant of the two ropes.
  - 2.2.2. Resultant of the two ropes.
  - 2.2.3. Resultant of the horizontal components.
  - 2.2.4. Resultant of the vertical components.
  - 2.2.5. Resultant of the two ropes.
- 2.3. Calculate the tension in the ropes.

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**Ensheng Dong**



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