



## GRADE 11 PHYSICAL SCIENCES NABCH TEST

### QUESTION 1

Answer questions one to seven in the spaces provided in the following questions. Choose the correct answer and write ONLY the LETTER (A-D) next to the QUESTION NUMBER in the space provided on your test paper (Example 1.1.1).

- 1.1 The graph below shows the relationship between the net force and the acceleration for two masses A and B.



Which one of the following statements is true?

- Force is directly proportional to acceleration.
  - Force is inversely proportional to acceleration.
  - Force is directly proportional to mass.
  - Force is inversely proportional to mass.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
- Three forces acting on an object at right angles.
  - Two forces acting on an object in the same direction.
  - Two forces acting on an object in opposite directions.
  - A single force acting on an object.
- 1.3 Which of the statements below best describes 'weight'?
- It is the force exerted by an object on the Earth's surface.
  - It is the force exerted by the Earth on an object.
  - It is the force exerted by an object on the Earth's surface.
  - It is the force exerted by the Earth on an object.
- 1.4 The vector of an object...
- is the same as the object's weight.
  - is the same as the object's mass.
  - is the same as the object's acceleration.
  - is the same as the object's velocity.
- 1.5 An object has a weight  $W$  on Earth. This denotes a value of the vector of resultant  $\vec{F}_R$  and the value of the weight is a lot of the weight  $W$  on the

surface of the Earth.

- is the same as the weight  $W$  on the surface of the Earth.
- is the same as the weight  $W$  on the surface of the Earth.
- is the same as the weight  $W$  on the surface of the Earth.
- is the same as the weight  $W$  on the surface of the Earth.

### QUESTION 2

The grade 11 learners have had time to work from one way to determine the resultant of two vectors. One way is the component method. They want to use the vector to find the resultant of the two vectors as a check for the other method which they have to complete. The learners' strategy:

- is the same as the weight  $W$  on the surface of the Earth.
- The vector  $\vec{A}$  is a vector of  $10\text{ N}$  to the right and the vector  $\vec{B}$  is a vector of  $10\text{ N}$  to the right.



Answer the QUESTION 2.1 to 2.5.

- What is the magnitude of the resultant vector?
- What is the direction of the resultant vector?
- What is the direction of the resultant vector?
- What is the direction of the resultant vector?
- What is the direction of the resultant vector?

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**Xiaolong Qi**



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