



## 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 each of the following cases, would the resultant force acting on the object be equal to 0N?
- Three forces acting on an object in the same direction.
  - Two forces acting on an object in opposite directions.
  - Two forces acting on an object in the same direction.
  - Two forces acting on an object in opposite directions.
- 1.3 Which of the statements below are true about the resultant?
- The resultant is the vector sum of all the forces acting on an object.
  - The resultant is the vector sum of all the forces acting on an object.
  - The resultant is the vector sum of all the forces acting on an object.
  - The resultant is the vector sum of all the forces acting on an object.
- 1.4 The vector of an object...
- is the vector sum of all the forces acting on it.
  - is the vector sum of all the forces acting on it.
  - is the vector sum of all the forces acting on it.
  - is the vector sum of all the forces acting on it.
- 1.5 An object has a weight  $W$ , is suspended from a point by a string. The weight of the object is  $W$  and the tension in the string is  $T$ . The weight of the object is  $W$  and the tension in the string is  $T$ .

vector of the force

- is  $W$
- is  $T$
- is  $W + T$
- is  $W - T$

- 1.6 A force of 100 N is applied to a block of 100 kg. The block is at rest. The resultant force on the block is...
- 100 N
  - 100 N
  - 100 N
  - 100 N

100

### QUESTION 2

The grade 11 learners have had to find a way to determine the resultant of three vectors. They used the component method. They used the law of cosines to find the resultant of the three vectors as a check. They found that the resultant is 100 N. The learners are...

- 100 N
- 100 N
- 100 N
- 100 N

100



Answer the following questions

- 100 N
- 100 N
- 100 N
- 100 N

100  
100  
100  
100  
100

# Physical Science Question Paper 1 November 2014

**Matt Murrie, Andrew R McHugh**



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