

# GRADE 11 PHYSICAL SCIENCES NOVEMBER EXAMINATION PAPER 1: PHYSICS

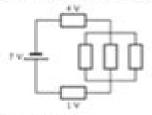
#### SECTION A QUESTION 1

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 GUESTICN NUMBER in your answer book.

1.1	An-	example	dis	vector	quartity
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- A velocity
- 8 displacement
- C speed
- D mans
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
  - A ... friction
  - B applied force
  - C gravity
  - D normal force
- 1.3 Two forces F<sub>1</sub> and F<sub>2</sub> have a net force of 120N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of F<sub>1</sub> and F<sub>2</sub> will be:
  - A 70N and 50N
  - 8 120N and 0N
  - C 60N and 60N
  - D 80N and 40N

#### Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
  - A 9
  - 8 7V
  - C 2V
  - D 3V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20:
  - A 100
  - 9 4,670
  - C 50
  - D 60
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
  - A. Hickoryal Street is also 200%.
  - B frictional force is more than 230N.
  - C Mictional force is less than 230N.
  - D none of the shows.
- 1.7 The diagram below shows a coil and a magnet with a pole P. A magnetic field is induced in the coil due to the motion of the magnet.



Which ONE of the following combinations will result in an induced magnetic field with NORTH POLE at point X

	ORECTION OF MOTION OF MAGNET	POLARITY OF P
A. 1	HIS the coil	North
0	Up and down inside the coil	North
¢ I	Into the coil	South
5	Up and down inside the coil	South

All trees

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