

PROVINCIAL EXAMINATION
NOVEMBER 2022
GRADE 10

SCIENCES (PHYSICS)

GRADE 10

TIME: 2 hours

MARKS: 100

11 pages and 3 formula sheets

1.0 Which of the following statements best describes resistance in parallel?

- A. Adding more resistors in parallel decreases the total current of the circuit
- B. Adding more resistors in parallel decreases the effective resistance of the circuit
- C. Removing a resistor in parallel increases the total current of the circuit
- D. Removing a resistor in parallel decreases the effective resistance of the circuit

(2)
(14)

QUESTION 2 (Start on a new page.)

2.1 Define the term vector.

(2)

2.2 Peter stands at the top of the tower.



2.3

(2)

2.3.1 How fast is Peter's displacement?

(2)

2.3.2 Is displacement a vector or a scalar? Give a reason for your answer.

(2)
(2)

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