

35 A cell has a constant electromotive force.

A variable resistor is connected between the terminals of the cell.

The resistance of the variable resistor is decreased.

Which statement about the change of the cell's terminal potential difference (p.d.) is correct?

- A** The terminal p.d. is decreased because more work is done moving unit charge through the internal resistance of the cell.
- B** The terminal p.d. is decreased because the current in the variable resistor is decreased.
- C** The terminal p.d. is increased because more work is done moving unit charge through the variable resistor.
- D** The terminal p.d. is increased because the current in the variable resistor is increased.