A particular circuit has a Norton equivalent having a 200  $\Omega$  output shunt resistance. An external 100  $\Omega$  resistor is connected across the output.

The voltage at the output terminals will then be

- 1. Unchanged
- 2. Reduced by factor of half
- 3. Reduced by factor of one third
- 4. Reduced by factor of two thirds

Maximum power is transferred to an external resistive load when the external load resistance

- 1. Is less than the Norton shunt resistance
- 2. Equals the Norton shunt resistance
- 3. Is greater than the Norton shunt resistance