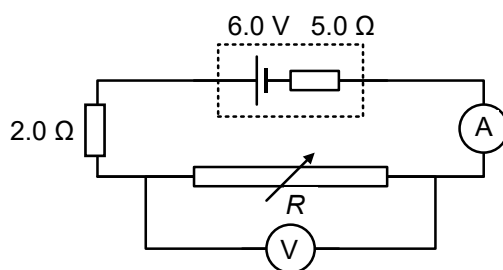


- 20** A battery of e.m.f. 6.0 V , and internal resistance, $5.0\ \Omega$ is connected in series to a fixed resistor of $2.0\ \Omega$ and a variable resistor R which has resistance between $0\ \Omega$ and $10\ \Omega$, as shown below. The ammeter and the voltmeter are both ideal.

Determine the maximum power delivered to the variable resistor R .



- A** 1.08 W **B** 1.29 W **C** 2.08 W **D** 7.20 W