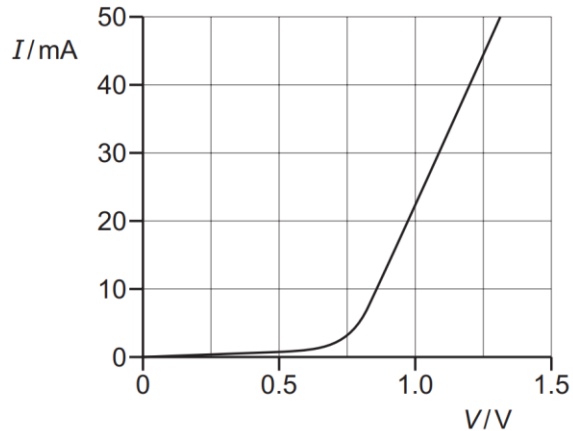
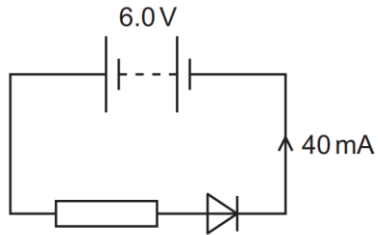


- 20 A fixed resistor and a diode are connected in series to a battery of electromotive force 6.0 V and negligible internal resistance. The graph shows the variation with potential difference  $V$  of the current  $I$  for the diode.



The current in the diode is 40 mA.

What is the resistance of the fixed resistor?

A 100  $\Omega$

B 100  $\Omega$

C 150  $\Omega$

D 180  $\Omega$