

20 The potential difference between two points P and Q in an electric circuit is 12 V. The current is 1.2 A and the change in energy of the charge carriers, as they pass between the points, is 10 J.

What is the time taken for the charge carriers to move between P and Q?

A 0.69 s

B 0.83 s

C 1.00 s

D 1.44 s