

30 A wire carries a current of $0.10\text{ }\mu\text{A}$. The potential difference across the wire is 10 mV .

How much energy is dissipated by the wire in a time of 10 s ?

A 1.0 pJ

B 10 pJ

C 1.0 nJ

D 10 nJ

31 What is the voltage if there is a potential difference of 10 V across a resistor of $10\text{ }\Omega$?