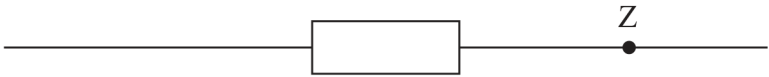


SECTION B

Answer ALL questions in the spaces provided.

11 Part of an electrical circuit is shown.



In 60 seconds, 4.80×10^{20} electrons pass point Z.

(a) Show that the current at Z is about 1.3 A.

(3)

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(b) In 60 seconds, the resistor transfers 24 J of energy.

Calculate the potential difference across the resistor.

(2)

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Potential difference =

(Total for Question 11 = 5 marks)