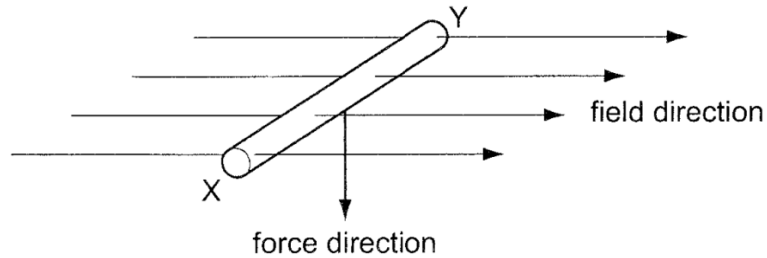


- 24** A current-carrying conductor is placed at right angles to a uniform magnetic field of flux density 0.50 T. A 10 cm length of conductor lies within the field and experiences a force of 2.4 mN.



What is the direction of electron flow and rate of flow of electrons in the conductor?

	direction of electron flow	rate of flow of electrons / s
<b>A</b>	X to Y	$4.8 \times 10^{-2}$
<b>B</b>	Y to X	$4.8 \times 10^{-2}$
<b>C</b>	X to Y	$3.0 \times 10^{17}$
<b>D</b>	Y to X	$3.0 \times 10^{17}$