

Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) <i>the units of the quantities are:</i> Force F: newton (N) Current I: ampere (A) Magnetic flux density B: tesla (T) or weber metre⁻² (Wb m⁻²) Length l of wire in field: metre (m) The equation $F = BIl$ applies only when the magnetic field is directed at right angles to the direction of the current.	1 1	It is preferable to give the full name of the units in a question such as this, although the symbols normally used for them (N, A, T and m) would be accepted. Note that units that are named after eminent physicists do not begin with a capital letter (unlike the name of the persons themselves). When B and I are not at right angles, the force is caused by the component of the magnetic flux density at right angles to the current, $B \sin \theta$, where θ is the angle between the current and the field. The more general equation is therefore $F = BIl \sin \theta$. It follows that there is no force on a wire when the current is parallel to the magnetic field.
(b) (i) Mass m of bar $= (25 \times 10^{-3})^2 \times 8900 \times l$ $= 5.56 l$ Weight mg of bar $= 5.56l \times 9.81 = 54.6l$ Magnetic force = weight of bar $\therefore mg = BIl$ $BIl = 54.6l$ gives $B = \frac{54.6}{I} = \frac{54.6}{65} = 0.84 \text{ T}$ (ii) Arrow drawn on diagram, labelled M: Into the front surface of the bar, at right angles to it, and in the same horizontal plane as the bar	1 1 1 1 1	For the bar, mass = volume $\times$ density, and volume = cross-sectional area $\times$ length. When the bar is supported by the magnetic force acting on it, the upwards magnetic force balances the bar's weight. The length l of the bar is a common factor, which cancels since it appears on both sides of the equation. This comes from the application of Fleming's left-hand rule. The representation may not be easy on the three-dimensional diagram; a correct arrow should point almost 'north-west' on the page.
2 (a) (i) Use of $F = BIl$ gives $B = \frac{F}{Il} = \frac{180}{12 \times 10^{-2} \times 0.83}$ $= 1.81 \times 10^{-3} \text{ T}$ (ii) Force on X due to Y: B at X (due to Y) is unchanged because the current in Y is unaltered $F = BIl$ and the current in X is halved, so the force on X is now 90 N.	1 1 2	The current in X sets up a magnetic field around it. The current in Y experiences a force, because Y is situated in the magnetic field produced by X. This argument applies equally in reverse, so the forces on X and Y are equal and opposite, whether or not the currents in X and Y are the same. Originally, when both bus bars carried currents of 180 A, the force between them was 180 N. Halving the current in one of them will reduce this force to 90 N.

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Jim Breithaupt



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