

## Answers to examination-style questions

Answers	Marks	Examiner's tips
<p>1 (a) <i>the units of the quantities are:</i>  Force <math>F</math>: newton (N)  Current <math>I</math>: ampere (A)  Magnetic flux density <math>B</math>: tesla (T)  or weber metre<sup>-2</sup> (Wb m<sup>-2</sup>)  Length <math>l</math> of wire in field: metre (m)</p> <p>The equation <math>F = BIl</math> applies only when the magnetic field is directed at right angles to the direction of the current.</p>	<p>1</p> <p>1</p>	<p>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).</p> <p>When <math>B</math> and <math>I</math> are not at right angles, the force is caused by the component of the magnetic flux density at right angles to the current, <math>B \sin \theta</math>, where <math>\theta</math> is the angle between the current and the field. The more general equation is therefore <math>F = BIl \sin \theta</math>. It follows that there is no force on a wire when the current is parallel to the magnetic field.</p>
<p>(b) (i) Mass <math>m</math> of bar  <math>= (25 \times 10^{-2})^2 \times 8900 \times l</math>  <math>= 5.56 l</math>  Weight <math>mg</math> of bar <math>= 5.56l \times 9.81 = 54.6l</math>  Magnetic force = weight of bar  <math>\therefore mg = BIl</math>  <math>BIl = 54.6l</math> gives  <math>B = \frac{54.6}{I} = \frac{54.6}{65} = 0.84 \text{ T}</math></p> <p>(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</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>For the bar, mass = volume <math>\times</math> density, and volume = cross-sectional area <math>\times</math> length. When the bar is supported by the magnetic force acting on it, the upwards magnetic force balances the bar's weight. The length <math>l</math> of the bar is a common factor, which cancels since it appears on both sides of the equation.</p> <p>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.</p>
<p>2 (a) (i) Use of <math>F = BIl</math> gives  <math>B = \frac{F}{Il} = \frac{180}{12 \times 10^3 \times 0.83}</math>  <math>= 1.81 \times 10^{-2} \text{ T}</math></p> <p>(ii) Force on X due to Y:</p> <ul style="list-style-type: none"> <li><math>B</math> at X (due to Y) is unchanged because the current in Y is unaltered</li> <li><math>F = BIl</math> and the current in X is halved, so the force on X is now 90 N.</li> </ul>	<p>1</p> <p>1</p> <p>2</p>	<p>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.</p> <p>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.</p>

# Applied Physics Answers To Examination Style Questions

**Malcolm Bradley, Susan Gardner**



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