

## Answers to examination-style questions

## Answers

- 1 (a) the units of the quantities are:  
 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.

(b) (i) Mass  $m$  of bar  
 $= (25 \times 10^{-3})^2 \times 8900 \times l$   
 $= 5.56l$   
 Weight  $mg$  of bar  $= 5.56l \times 9.81 = 54.6l$   
 Magnetic force = weight of bar  
 $\therefore mg = BIl$   
 $BIl = 54.6l$  gives  
 $B = \frac{54.6}{l} = \frac{54.6}{65} = 0.84$  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

2 (a) (i) Use of  $F = BIl$  gives  
 $B = \frac{F}{Il} = \frac{180}{12 \times 10^3 \times 0.83}$   
 $= 1.81 \times 10^{-2}$  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.

## Marks Examiner's tips

- 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).

- 1 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  $\theta$  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.

- 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.

- 1 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.

- 1 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.

- 2 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.

# Applied Physics Answers To Examination Style Questions

**Arshad Iqbal**

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