

| Question   | Answer  | Marks               | Guidance   |
|------------|---|---------------------|--|
| 1 (a)      | Ammeter deflects in one direction and then in the opposite direction.   | 1<br>1              | The magnetic flux through the coil increases and in one direction, and then decreases, as the N-pole passes through.<br>This process is then repeated in the opposite direction as the S-pole passes through. The ammeter deflects only when there is relative movement between the magnet and coil.   |
| 1 (b) (i)  | The acceleration of the magnet would be reduced...<br>because the magnetic field produced by the current induced in the coil gives an upwards force on the N-pole of the magnet that opposes the movement of the N-pole towards the coil.   | 1<br>1              | According to <b>Lenz's law</b> , the direction of an induced emf is always such as to <b>oppose the change of flux</b> that produces it. In this example the change of flux can be opposed by trying to prevent the magnet from dropping into the coil.  |
| 1 (b) (ii) | The acceleration of the magnet would again be reduced...<br>because the magnetic field produced by the current induced in the coil gives an upwards force on the S-pole of the magnet that opposes the movement of the S-pole away from the coil.   | 1<br>1              | As the magnet leaves, the change of flux can be opposed by trying to keep the magnet in the coil. The induced magnetic field therefore causes a force of attraction on the S-pole of the magnet.   |
| 1 (c)      | <i>Relevant points include:</i><br>- The magnet would now fall with an acceleration of $g$<br>- An emf would still be induced in the coil<br>- No current could be produced by the induced emf<br>- No induced magnetic field would be produced<br>- There would be no opposing forces on the magnet due to an induced current.   | Any 3               | There can be a current only if a circuit is complete. With the meter disconnected, the emf cannot give a current, and the coil will therefore not produce an opposing magnetic field. An alternative explanation would be in terms of energy: no energy could be dissipated from the circuit if there were no current, and the magnet would lose none of its kinetic energy.   |
| 2 (a) (i)  | $\Phi$ represents magnetic flux   | 1                   | Do not confuse this with <b>flux linkage</b> , which is (number of turns on coil) $\times \Phi$ .  |
| 2 (a) (ii) | The unit of $\Phi$ is weber (Wb), or tesla metre <sup>2</sup> (T m <sup>2</sup> ).  | 1                   | $\Phi = (\text{flux density}) \times$<br>(area at right angles to flux)<br>$= BA$<br>The unit of $B$ is tesla, so the unit of $\Phi$ is T m <sup>2</sup> . 1 T m <sup>2</sup> = 1 Wb   |
| 2 (b) (i)  | The maximum emf occurs when $\frac{\Delta B}{\Delta t}$ is a maximum i.e. where the gradient of the $B$ - $t$ graph is greatest.<br>$\therefore$ draw tangent to line at $t = 0.5$ or $1.0$ s ( $t = 0$ is also acceptable).<br><br>From tangent, $\frac{\Delta B}{\Delta t} = 6 \times 10^{-3} \text{ T s}^{-1}$<br><br>$\therefore$ maximum emf $= NA \frac{\Delta B}{\Delta t}$<br>$= 240 \times 2.5 \times 10^{-4} \times 6 \times 10^{-3}$<br>$= 3.6 \times 10^{-4} \text{ V}$ | 1<br><br>1<br><br>1 | The magnitude of the induced emf is given by<br>$\epsilon = N \frac{\Delta \phi}{\Delta t} = N \frac{\Delta(BA)}{\Delta t}$ .<br>In this example $N$ and $A$ are constant, hence $\epsilon \propto \frac{\Delta B}{\Delta t}$ .<br><br>Use a ruler to draw the longest straight line you can that is a tangent to the graph line at its maximum slope. Take readings from the ends of your line. Some tolerance (say 20%) would have to be allowed in the answer: perhaps $(2.9 \text{ to } 4.3) \times 10^{-4} \text{ V}$ |

# 25 Electromagnetic Induction Aqa Physics Answers To

**Yan Bai**



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