

Question	Answer	Marks	Guidance
1 (a)	Ammeter deflects in one direction and then in the opposite direction.	1 1	The magnetic flux through the coil increases and in one direction, and then decreases, as the N-pole passes through. 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... 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 1	According to Lenz's law , the direction of an induced emf is always such as to oppose the change of flux 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... 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 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> - The magnet would now fall with an acceleration of g - An emf would still be induced in the coil - No current could be produced by the induced emf - No induced magnetic field would be produced - 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)	Φ represents magnetic flux	1	Do not confuse this with flux linkage , which is (number of turns on coil) $\times \Phi$.
2 (a) (ii)	The unit of Φ is weber (Wb), or tesla metre ² ($T m^2$).	1	$\Phi = (\text{flux density}) \times$ (area at right angles to flux) $= BA$ The unit of B is tesla, so the unit of Φ is $T m^2$. $1 T m^2 = 1 Wb$
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. \therefore draw tangent to line at $t = 0.5$ or 1.0 s ($t = 0$ is also acceptable). From tangent, $\frac{\Delta B}{\Delta t} = 6 \times 10^{-3} T s^{-1}$ \therefore maximum emf $= NA \frac{\Delta B}{\Delta t}$ $= 240 \times 2.5 \times 10^{-4} \times 6 \times 10^{-3}$ $= 3.6 \times 10^{-4} V$	1 1 1	The magnitude of the induced emf is given by $\epsilon = N \frac{\Delta \phi}{\Delta t} = N \frac{\Delta(BA)}{\Delta t}$. In this example N and A are constant, hence $\epsilon \propto \frac{\Delta B}{\Delta t}$. 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 $(2.9 \text{ to } 4.3) \times 10^{-4} V$

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