

# Answers to examination-style questions

Answers		Marks	Examiner's tips
	(iii) Peak induced emf = $1.5 \times 5 = 7.5 \text{ mV}$ induced emf = $N \frac{\Delta \phi}{\Delta r}$ $\therefore \frac{\Delta \phi}{\Delta r} = \frac{\text{induced emf}}{N} = \frac{7.5 \times 10^{-3}}{350}$ = $2.14 \times 10^{-9} \text{ Wb s}^{-1}$ or $2.1 \times 10^{-9} \text{ Wb s}^{-1}$ or T m <sup>2</sup> s <sup>-1</sup>	1 1 1	Readings have to be taken from the coarse scale on the screen in Figure 2, so there would have to be some tolerance in the accepted answers. Reading the peak emf as 7.6 mV would give 2.17 Wb s <sup>-1</sup> as the final answer here.
(c)	Relevant points include: Direction of induced emf (or current) opposes the change that produces it A pulse is produced as a magnet approaches and leaves a coil Forces on a magnet repel it as it approaches and attract it as it leaves Current therefore flows one way as the magnet approaches and the opposite way as it leaves.	any 3	The emf induced in a coil causes a current in it. This current produces a magnetic field that opposes the movement of the magnet, repelling an approaching magnet and attracting a magnet that is moving away. The current flows in opposite directions to provide reversal of the field direction.
(d)	Waveform drawn on Figure 2 to show:  • larger peak voltages  • + and – peaks closer together  • narrower (sharper) peaks  • sets of peaks closer together.	any 3	Faster rotation would produce a greater rate of change of flux (therefore larger voltages), and quicker events that occur more frequently.
4 (a)	Diagram completed to show a workable arrangement, with:  • a horizontal current-carrying conductor at right angles to the flux lines, a pivot and a balancing weight  • magnetic force shown by a labelled arrow directed, for example, downwards  • current direction labelled consistent with direction of force: for example, into the plane of the page (towards the back of the arrangement of mounted magnets).		A current balance is an apparatus which gives the possibility of measuring a magnetic field by 'weighing' the force that acts on a current-carrying conductor in a magnetic field. A simple arrangement consists of a wire frame that is pivoted, with weights on one side to balance the magnetic force on the other side. The force and current directions shown in your diagram must be consistent with Fleming's left-hand rule.
(p)	(i) Force on one wire in the coil = $BH = 40 \times 10^{-5} \times 0.55 \times 0.15$ = $3.3 \times 10^{-3}$ N Force on one side of the coil = $20 \times 3.3 \times 10^{-3} = 6.6 \times 10^{-2}$ N	1	Part (b) revises work covered in Chapter 7. The coil is square, so its length is indistinguishable from its width. Each side is of length 0.15m. Do not overlook the fact that the coil has 20 turns.
	(ii) An emf is induced once the coil is rotating, because the coil cuts the magnetic flux continuously. This induced emf opposes the emf that is causing the coil to rotate, thereby reducing the current.	1	The induced emf generated in a rotating motor coil is known as a back emf and is an example of Lenz's law. It seems strange that a motor carries maximum current when it first starts and minimum current when it rotates fastest.

# **Aqa Science Nelson Thornes Answers Physics**

**Paul Collison, Peter Ellis** 

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web cellular respiration in many ways the opposite of photosynthesis shows the interdependence of producers and consumers combined the two equations demonstrate how energy flows and the carbon and oxygen cycle between organisms and environment review what source of energy do cells use to build atp by cellular respiration