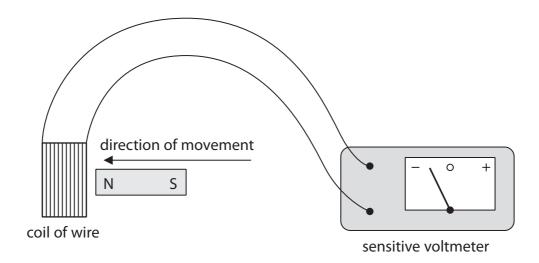
11 (a) This apparatus can be used to investigate electromagnetic induction.



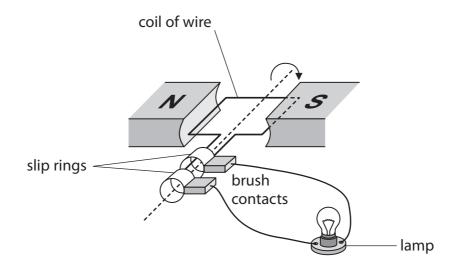
When the magnet is moved into the coil of wire, the voltmeter shows a negative reading.

State two separate changes, each of which would make the voltmeter show a positive reading.

(2)

(b) The diagram shows a simple electrical generator connected to a lamp.

When the coil is turned, a voltage is induced.



	(i) Explain why a voltage is induced when the coil is turned.	(2)
	(ii) State two ways that this induced voltage can be increased.	(2)
1		
2		

(iii	When the lamp is connected to the generator, the When the lamp is disconnected from the generator		
	Suggest, in terms of energy, why it is harder to turn is connected.		(0)
			(2)
	(То	tal for Question 11 = 8 ma	rks)
	TOTAL FOR PAPER = 120 MARKS		

