

Q1.

	Answer	Acceptable answers	Mark
(a)(i)	C		(1)
(a)(ii)	B		(1)

Total question = 8 marks

Q2.

	Answer	Acceptable answers	Mark
(iii)	A description including <ul style="list-style-type: none"> • in one direction only for DC (1) • reversing direction for AC (1) 	'DC goes straight' is insufficient AC switches/changes direction OR moves to and fro 'AC goes different ways' is insufficient. Diagram with labelled arrows could get 2 marks.	(2)

Q3.

Question number	Answer	Additional guidance	Mark
	d.c. - (current) in one direction only (1) a.c. - (current) changes direction (1)	one way both ways	(2) AO1

Q4.

Question Number	Answer	Additional guidance	Mark
(ii)	<p>rate of flow of charge in the immersion heater is greater than in the kettle / heating element (1)</p> <p>the direction of the flow of charge in the kettle / heating element keeps changing (whereas it remains in the same direction in the immersion heater) (1)</p>	<p>accept reverse arguments</p> <p>more charge per second in the immersion heater</p> <p>allow (in this context) faster (rate of) flow in immersion heater</p> <p>14 coulombs per sec in immersion heater and 8.3 coulombs per sec in kettle / heating element</p> <p>flows both ways in the kettle / heating element (one way in the heater)</p> <p>simply referring to alternating current and direct current is not enough</p>	(2)