Question number	Answer	Notes	Marks
5 (a)	any four in any order voltmeter; ammeter; power supply; variable resistor/connecting wires/switch;	accept battery accept variable power supply for 2 marks	4
(b) i	any 1 of the following: MP1. resistance changes with temperature; MP2. temperature affects current; MP3. the wire will get hot because of the current;		1
ii	any suitable method; further detail; e.g. use a switch only on for short time allow wire to cool between readings use only low current	allow water bath	2
(c)	4 correct lines score 3 marks;;; 2 or 3 correct lines score 2 marks; 1 correct line scores 1 mark;  omponent graph long thin copper wire  -1 if multiple lines drawn to or from the same box		3

**Total 10 marks**