

## SECTION B

Question		Answer	Marks	Guidance
16	(a)	5.56 (V) and data point plotted correctly to $\pm \frac{1}{2}$ small square.	B1	
	(b)	Best fit straight line drawn through the last 4 data points. Gradient of the line determined. $\rho = \text{gradient} \times A$ , hence resistivity = $(1.1 \pm 0.1) \times 10^{-6} (\Omega \text{ m})$	B1 B1 B1	Allow a maximum of 2 marks if the line of best fit is drawn through all 5 data points.
	(c)	The actual resistance values will be smaller. The gradient of the graph will be lower. Hence resistivity of the metal will be smaller than the value in (b).	B1 B1 B1	
		<b>Total</b>	<b>7</b>	