5.6.2 Electricity Paper 2 (448/2)

1C	**Reasons for differences** – For parallel circuits – Voltage across the circuit is same – Total supply current $I = I_1 + I_2$ – Total resistance $R_T = \dfrac{1}{R_1} + \dfrac{1}{R_2}$	**1** **1** **1**
	For series circuit – Total supply current is same – Total supply voltage $V = V_1 + V_2$ – Total resistance $R_T = R_1 + R_2$	1 1 1
3C	Tests carried out – Insulation resistance test at the plug – Polarity and continuity test for the cable	1 1
4C	Graph Axes – 2 x 1 = 2 Plotting – 7 x ½=3½ Current -1½	7
d	Determining voltage when LED is ON –2 x 1 = 2 marks	2