Question number	Answer	Notes	Marks
8 (a) (i)	P = I x V;	accept standard symbols or in words or rearranged	1
(ii)	substitution and rearrangement; evaluation; e.g. (I =) 110/230 (I =) 0.48 (A)	 allow 0.5, 0.47826 (A) condone 0.47, 0.4782	2
(b) (i)	any suitable suggestion; e.g. carries a high(er) <u>current</u> has low(er) <u>resistance</u>	ignore references to cable overheating/melting	1
(ii)	L or live;		1
(iii)	any suitable suggestion; e.g. double insulated does not have a metal case / has a plastic case	 case is not a conductor / is an insulator	1
(c)	substitution into a suitable equation; time in correct units; evaluation; e.g. (E = I x V x t) (E =) 0.17 x 230 x 55……1 mark (E =) 0.17 x 230 x 55 x 60…2 marks (E =) 130 000 (J)……3 marks OR (E = P x t) (E =) 40 x 55……1 mark (E =) 40 x 55 x 60……2 marks (E =) 130 000 (J)……3 marks	no mark for the equation as given in the paper allow if x60 / 3300 seen anywhere in working 129 030 (J) allow 131 835 for use of V = 235V 132 000(J) total marks = 9	3