Question number	Answer	Notes	Marks
6 a i	Power = current x voltage;	Accept rearranged equation equation in recognised symbols	1
ii	Substitution and rearrangement; Evaluation; eg I = 2000 / 230 8.7 (A)	Accept • 9 (A) • 8.695(A) ETC NOT • 8.6 incorrect truncation • 9.0 incorrect rounding	1
iii	D 13 A		1
b	Series – single switch to control both; Parallel – independent control;	Allow idea of one element failing (and the other continuing) ignore comments about voltages or currents there is no mark for getting the 2 answers reversed	1

c i	ANY FOUR FROM – MP1. earth connected to (metal) casing; MP2. If casing becomes live/ live wire touches case; MP3. Provides low resistance path (to earth); MP4. (So) large/surge current in earth wire; MP5. (hence) fuse breaks/melts/blows; MP6. (so) circuit switches off or current stops or supply cuts off;	Allow circuit breaker(RCCB) DO NOT CREDIT: the electricity goes to the ground/eq for MP3	4
ii	any two from MP1. It has a metal case; MP2. Metals/the case conducts (electricity); MP3. to prevent (user getting) a shock;		1

(Total for question 6 = 12 marks)