

Question number	Answer	Notes	Marks
6 (a)	any THREE from: MP1. correct reference to convection; MP2. fan aids convection; MP3. reference to conduction not being the main method; MP4. (since) {plastic/air} is a poor conductor/good insulator; MP5. white (materials) are poor at emitting /eq;	allow idea of heat reflecting back / not absorbing well from this interior white surface	3
(b)	any THREE from: MP1. correct reference to conduction; MP2. since {metals/aluminium} conducts well; MP3. reference to convection not being the main method; MP4. as hot air particles can't circulate (from inside to outside); MP5. black (materials) are good at emitting/eq;	allow idea of heat being absorbed well from the interior black surface	3
(c) (i)	power = voltage \times current;	accept 'P = IV' accept any correct rearrangement	1
(ii)	substitution; evaluation; watt or W as the unit; correct answer: 15 watts e.g. power = voltage \times current power = 5.1×2.9 power = 14.8 watts	accept 14.8, 14.79 W	3

Total for Question 6 = 10 marks