Question number	Answer	Notes	Marks
11 (a)	MP1. ammeter connected in series with	marks are for how components are connected so ignore circuit symbols throughout	3
	filament lamp; MP2. voltmeter connected in <u>parallel</u> with filament lamp;	allow voltmeter connected in parallel with lamp and ammeter	
	MP3. suitable method of varying the voltage (e.g. by using variable resistor or using variable power supply);		
(b)	any 4 of: MP1. read ammeter / voltmeter OR record current / voltage; MP2. current is measured for more than one voltage; MP3. repeat readings and calculate average (mean); MP4. plot graph; MP5. suitable experimental precaution, e.g. check meters for zero error / switch off current between readings;		4

Total for question 11 = 7 marks