Question number	Answer	Notes	Marks
10 (a) (i)	any three from: MP1. distance is continuous variable; MP2. meter reading is discrete / discontinuous variable; MP3. graph 1 correct for continuous data; MP4. graph 1 better for identifying anomalies; MP5. idea that graph 1 can be used to predict non-tested values; MP6. graph 2 correct if any data is discrete / discontinuous;	e.g. distance for a certain meter reading can be found	3
(ii)	<ul> <li>e.g.</li> <li>read rule at eye level</li> <li>move rule closer to torch</li> <li>rule parallel to torch</li> <li>check for zero error / use a fiducial marker;</li> </ul>	ignore references to repeats and precision avoid parallax	1
(iii)	<ul> <li>any sensible suggestion;</li> <li>e.g.</li> <li>zero error</li> <li>always a small amount of ultraviolet present</li> <li>change is too small to measure</li> </ul>	allow because of background light ignore background radiation	1
(b)	any four control variables from: MP1. constant {thickness / amount     / mass / volume} of     sunscreen cream; MP2. constant distance (from torch     to meter); MP3. constant ultraviolet light     intensity;  MP4. same (transparency /     thickness of) sheet used each     time; MP5. same detector used each     time; MP6. constant temperature; MP7. constant background light     level;	allow constant distance from sheet to torch / meter allow same torch, constant power of the torch / eq.	4

Total for question 10 = 9 marks