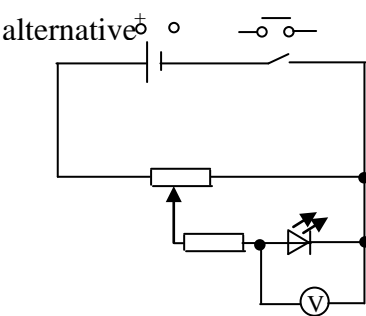


Experiment	Answers / Explanatory notes	Marks Available
2. (a) (i)	<p>Circuit diagram:</p>  <p>Potentiometer (1) 4/5 symbols correct [apart from the potentiometer] (1) Correct circuit. (1)</p>	3
(ii)	Potentiometer / potential divider	1
(iii)	Correct reading to 2 d.p. with unit.[regard any supervisor's comments]	1
(b)	<p>Table: All readings correctly taken/inserted (1) Consistent s.f.s (1) V_{\min} average correct. (1)</p>	3
(c)	<p>$V_{\min} \times \lambda$ constant (1) At least 2 calculations shown. (1)</p>	2
(d) (i)	Js [accept: $\text{J Hz}^{-1} / \text{kg m}^2 \text{s}^{-1}$]	1
(ii)	<p>h calculated correctly (1) 4 values of h obtained. (1) Mean calculated (1) and expressed to 2 or 3 s.f. (1)</p>	4
(iii)	<p>Maximum and minimum values of h identified. (1) % uncertainty calculated. (1)</p>	2
(iv)	e.g. Larger range / blacked out room	1
(v)	<p>Young's slits / diffraction grating (1) Brief description or statement $n\lambda = d \sin \theta$ (1)</p>	2
		[20]