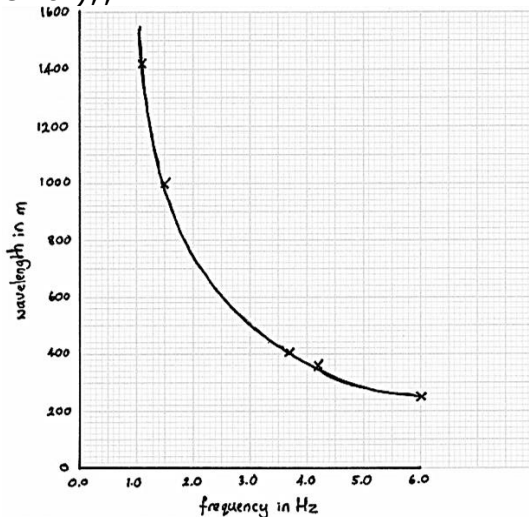| Question number			Answer	Notes	Marks
6	(a)	(i)	suitable linear scale chosen (>50% of grid used); axes labelled with quantities and unit; plotting correct to nearest half square (minus one for each plotting error);;	ignore orientation i.e. two plotting errors = no marks for plotting | Frequency in Hz	6.0	4.2	3.7	1.5	1.1
Wavelength in m	250	360	405	1000	1420		4
		(ii)	acceptable curve of best fit drawn;	i.e. smooth curve within 1 small square of each point ignore parts of curve outside plotted points if extrapolated	1
		(iii)	2.6 (Hz)	allow 2.4-2.8 (Hz) ECF from curve drawn in (a)(ii)	1
		(iv)	as frequency increases, wavelength decreases; non-linear relationship;	allow similar pattern sentence ignore 'negative correlation' 'they are <u>inversely proportional</u>' gets both marks	2
	(b)		any suitable suggestion; e.g. - wider range - intermediate values - take repeats and average	allow regular intervals allow 'more results' allow take repeats to identify anomalies	1