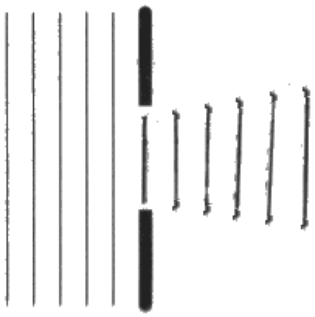
Question number	Answer	Notes	Marks
3 (a)	left diagram: at least 3 correctly curved wavefronts centred on the gap; spacing of wavefronts is consistent with original wavefronts;  right diagram: evenly spaced planar wavefronts (curved at the edges); 	ignore where wavefront lines start and finish DOP judge spacing by eye reject if any wavefront line is as long as original wavefront lines ignore spacing of wavefronts	3
(b) (i)	(wave) speed = frequency x wavelength;	allow rearrangements and use of standard symbols e.g. $v = f \times \lambda$ condone s for speed	1
(ii)	substitution / rearrangement; evaluation of frequency; evaluation of wavelength to at least 2 significant figures; e.g. 6.0 = f x 4.0 f = 1.5 (Hz) (λ_2 =) 2.7 (cm)	allow alternative methods e.g. 6 / 4 = 4 / λ gains both method marks allow 2.67, 2.6 recurring condone 2.6, 2.66 etc. do not allow 3.0	3

Total for question 3 = 7 marks