

Page 6	Mark Scheme IGCSE – May/June 2013	Syllabus 0625	Paper 32
5	(a) (i) diffraction		B1 [1]
	(ii) 1 or 2 parallel waves (and part-circular ends) in outer harbour NOT part-circular ends going down 3 part-circular waves, > 45° each side by eye, in inner harbour allow flat below gap centred in gap, allow error up to 1λ vertically wavelength constant throughout, must have 3 extra wavefronts, judged along line of direction of wave travel in Fig. 5.1		B1 B1 B1 [3]
	(b) (i) refraction		B1 [1]
	(ii) at least 4 parallel, straight waves joined onto original waves at least 3 straight waves, sloping down to the right OR with constant reduced λ		B1 B1 [2]
			[Total: 7]
	6	(a) correct reflection of left ray AND 22° ≤ angle between right ray and surface ≤ 32°, by protractor rays projected back to form image in correct position	
(b) both rays refract down rays projected back to form image somewhere in water to the left of where left ray strikes surface			M1 A1 [2]
(c) $\sin c = 1 / 1.33$ OR $\sin c / \sin r = 1 / 1.33$ OR $\sin^{-1} (1 / 1.33)$ OR $\sin^{-1} 0.75$ ($c = 48.8^\circ \approx 49^\circ$)			C1 A1 [2]
(d) appropriate use, accept diagram accept 'endoscope', 'in medicine' is not sufficient clear diagram of the above use or T.I.R. diagram for optical fibre one from: light goes down fibre/into body illuminates internal organ light/image returns from body/organ o.w.t.t.e.			M1 A1 A1 [3]
			[Total: 9]

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