

Page 6	Mark Scheme IGCSE – May/June 2013	Syllabus 0625	Paper 32
5	<p>(a) (i) diffraction</p> <p>(ii) 1 or 2 parallel waves (and part-circular ends) in outer harbour NOT part-circular ends going down 3 part-circular waves, $> 45^\circ$ 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</p> <p>(b) (i) refraction</p> <p>(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</p>	<p>B1 [1]</p> <p>B1</p> <p>B1</p> <p>B1 [3]</p> <p>B1 [1]</p> <p>B1</p> <p>B1 [2]</p>	<p>[Total: 7]</p>
6	<p>(a) correct reflection of left ray AND $22^\circ \leq$ angle between right ray and surface $\leq 32^\circ$, by protractor rays projected back to form image in correct position</p> <p>(b) both rays refract down rays projected back to form image somewhere in water to the left of where left ray strikes surface</p> <p>(c) $\sin c = 1 / 1.33$ OR $\sin c / \sin r = 1 / 1.33$ OR $\sin^{-1} (1 / 1.33)$ OR $\sin^{-1} 0.75$ ($c = 48.8^\circ \Rightarrow$) 49°</p> <p>(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.</p>	<p>B1</p> <p>B1 [2]</p> <p>M1</p> <p>A1 [2]</p> <p>C1</p> <p>A1 [2]</p> <p>M1</p> <p>A1</p> <p>A1 [3]</p>	<p>[Total: 9]</p>

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Michal Rosen-Zvi

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