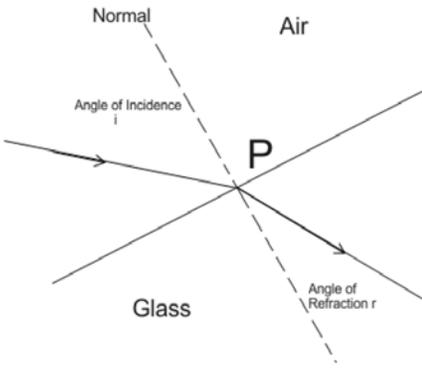


Question Number	Answer	Acceptable answers	Mark
<b>1 (a) (i)</b>	An explanation linking: Angle (of incidence) in glass (1) greater than critical angle / $42^\circ$ (1)	Angle in air cannot be greater than $90^\circ$ for 1 mark  Glass has a higher refractive index than air for 1 mark	<b>(2)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1 (a) (ii)</b>	 <p>angle <math>i</math> from normal in air (1) angle <math>r</math> from normal in glass (1)</p>	accept for 1 mark  angle $i$ in air <u>and</u> angle $r$ in glass/ <u>both</u> angles measured from normal	<b>(2)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1 (a) (iii)</b>	<input checked="" type="checkbox"/> <b>C</b> speed decreases		<b>(1)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1(b)(i)</b>	<p>An explanation linking any three of the following:</p> <p>(Optical fibres) bend (1)            some fibres carry light to the inside of the patient (1)            some fibres transmit the reflected light (1)            light passes up/down fibres by TIR (1)            light is reflected inside the patient (1)            image is analysed by computer (1)</p>	<p>Accept suitable labelling on a Diagram</p> <p>Image projected on a screen</p>	<b>(3)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1(b)(ii)</b>	<p>Either</p> <p>Breaks/blasts/smashes (1)            Kidney stones (1)            or            Energy absorbed (1)            to help repair muscle tissue (1)            or            Use of gel (1)            to prevent loss of intensity (1)            or</p>	<p>bruising/clots            increases blood flow</p> <p>Allow (1) mark for suitable diagnosis e.g. prenatal scan</p>	<b>(2)</b>

Total mark for question 3 = 10