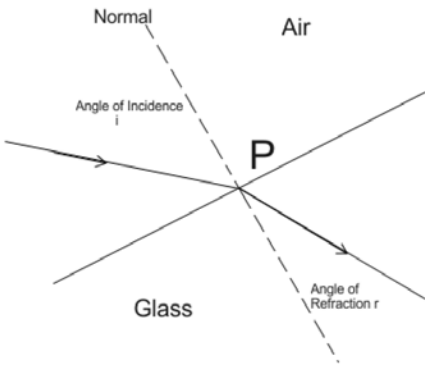


Question Number	Answer	Acceptable answers	Mark
1 (a) (i)	An explanation linking: Angle (of incidence) in glass (1) greater than critical angle / 42° (1)	Angle in air cannot be greater than 90° for 1 mark Glass has a higher refractive index than air for 1 mark	(2)

Question Number	Answer	Acceptable answers	Mark
1 (a) (ii)	 <p>angle i from normal in air (1) angle r 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	(2)

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

Question Number	Answer	Acceptable answers	Mark
1(b)(i)	<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>	(3)

Question Number	Answer	Acceptable answers	Mark
1(b)(ii)	<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>	(2)

Total mark for question 3 = 10