Question number	Answer	Notes	Marks
6 (a)			(1)
(b) (i)	normal drawn correctly;	judge by eye	(1)
(ii)	correct angle marked to their normal;	judge by eye	(1)
(iii)	correct angle chosen within ± 3°;	27°, no ECF from bi or bii	(1)
(vi)	<u>sin i</u> = n ; sin r	accept rearrangements	(1)
(v)	substitution; evaluation; e.g. sin 43 = n sin 27	allow ECF from biii	(2)
(c) (i)	Total Internal Reflection;	accept TIR	(1)
(ii)	MP1. light reflects (inside (surface) of fibre);MP2. with angle i> critical angle;MP3. (because) light travels slower in glass;	condone light hits/bounces off the fibre wall	(3)

Total for Question 6 = 11 marks