Question number			Answer	Notes	Marks
2	(a)		B - light;		1
	(b)	(i)	(signal has) two values;	accept • on or off • 0 and 9 • 0 and 1 • 1 and 9 • two signal strengths/states • binary • it is a square wave(form)	1
				ignoreall at 9up and downtrue and false	
		(ii)	any two of:	ignore references to analogue signals	2
			MP1. (idea of) increasing the bit rate / sending more bits in the same time;	allow more bits / pulses per second	
				condone increase frequency	
			MP2. (idea of) an additional level / strength;	allow a named extra level e.g. 'use 4.5 as well'	
			MP3. (idea of) increased bandwidth / range of transmission frequencies;	allow wider bandwidth	
			0445	ignore 'broadband'	
			MP4. (idea of) multiplexing;	allow use more than one channel	
				condone add extra signals	
			MP5. (idea of) quantisation (algorithm);	allow compression of data	

Total 4 marks