7	(a)	(i)	Explain what is meant by a <i>progressive transverse</i> wave.	
			progressive:	
			transverse:	
			[2	
		(ii)	Define frequency.	
			[1	
	(b)	The	variation with distance x of displacement y for a transverse wave is shown in Fig. 7.1.	
		<i>y</i> /	2.0 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0	
			Fig. 7.1	
	On Fig. 7.1, five points are labelled.			
	Fig. 7.1 to state any two points having a phase difference of			
		(i)	zero,	
			[1	
		(ii)	270°.	
			[1	
	(c)	The	frequency of the wave in (b) is 15 Hz.	
		Cal	culate the speed of the wave in (b) .	

(d)	Two waves of the same frequency have amplitudes 1.4 cm and 2.1 cm.		
	Calculate the ratio		
		intensity of wave of amplitude 1.4 cm intensity of wave of amplitude 2.1 cm	
		ratio =[2]	