(a)	Explain the term interference.		
(b)	A ripple tank is used to demonstrate interference between water waves.		
	Describe		
	(i)	the apparatus used to produce two sources of coherent waves that have circu wavefronts,	
	(ii)	how the pattern of interfering waves may be observed.	

(c) A wave pattern produced in (b) is shown in Fig. 7.1.

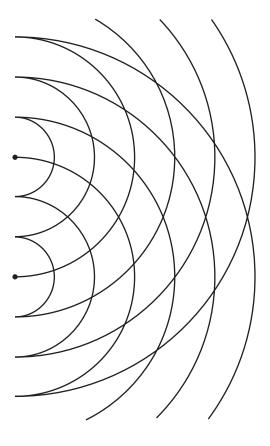


Fig. 7.1

Solid lines on Fig. 7.1 represent crests.

On Fig. 7.1,

- (i) draw two lines to show where maxima would be seen (label each of these lines with the letter X), [1]
- (ii) draw one line to show where minima would be seen (label this line with the letter N). [1]