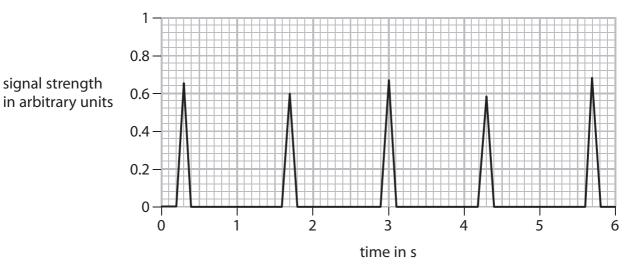
8	A pulsar is a type of star.	
3		
	We receive radiation from a pulsar in regular short bursts called pulses.	
	(a) Some pulsars emit radio waves. Other pulsars emit x-rays.	
	(i) State a property of waves that is the same for radio waves and x-rays.	
		(1)
•••••		
	(ii) State two properties of waves that are different for radio waves and x-rays.	
		(2)
1		
1		
2		

(b) The graph shows five pulses of the signal from a pulsar.



(i)	Explain	how the	graph	shows	that the	signal	is not	digita	ı
(1)	LAPIGITI	HOW the	graph	3110443	tilat til	- Jigilai	13 1100	aigita	١.

(2)

(ii) Use the graph to estimate the average time between each pulse.

(2)

(iii) Calculate the frequency of the pulses in the signal.

Give the unit.

(2)

(Total for Question 8 = 9 marks)

TOTAL FOR PAPER = 60 MARKS

