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Turn over

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(c)	This model is supposed to show the random motion of a particle. List three ways in which it does not represent the random motion of a particle.				
	1				
	2				
	3	Q			
	(Total 12 marks)				
	OUESTION 2 IS ON PAGE 6				





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	Student	Change of direction (°)	Wavelength in shallow water (mm)	
	Maria	10	26	
	Ranjeet	15	24	
	Rio	20	22	
	Carmen	25	20	
	James	30	31	
(iii) T	Does your data from (d) fit the trend show	n in the table? Evn	(1) lain vour answer
(III) L				
				() [`]
				(2)









different	parts of the flame.	
1		
2		
3		
4		
	(4)	
c) Name an	extra piece of apparatus that would make the investigation	
(i) more	e reliable	
	(1)	
	(1)	
(ii) safei	r	
······		
	(1)	
d) During t	(1)	
d) During the each read	(1) he investigation the following thermometer readings were observed. Record ding and calculate the temperature difference.	
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d) During the each read	(1) he investigation the following thermometer readings were observed. Record ding and calculate the temperature difference. $\begin{vmatrix} 40 \\ 35 \\ 30 \\ 25 \\ 45 \\ 45 \\ 45 \\ 45 \\ 45 \\ 45 \\ 45$	
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	Macrum the conception in man of the node with the surrout of 2.4	Leav blan
(1)	weasure the separation in mm of the roas with the current of 2 A.	
	Separation = \dots mm (1)	
(ii)	Read the value of current, in A.	
	Current = A (1)	
(iii) Suggest a value for the separation of the rods for the current shown in Diagram 3.	
	Separation = \dots mm (1)	
(iv) The circuit is removed and there is no current in the rods. You can now use the apparatus to see if Hooke's law is obeyed for two identical metal springs in parallel. You are provided with some small unknown masses to extend the springs. Where would you place the masses? Explain your answer. 	
	(3)	Q4
	(Total 13 marks)	
	TOTAL FOR PAPER : 50 MARKS	
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