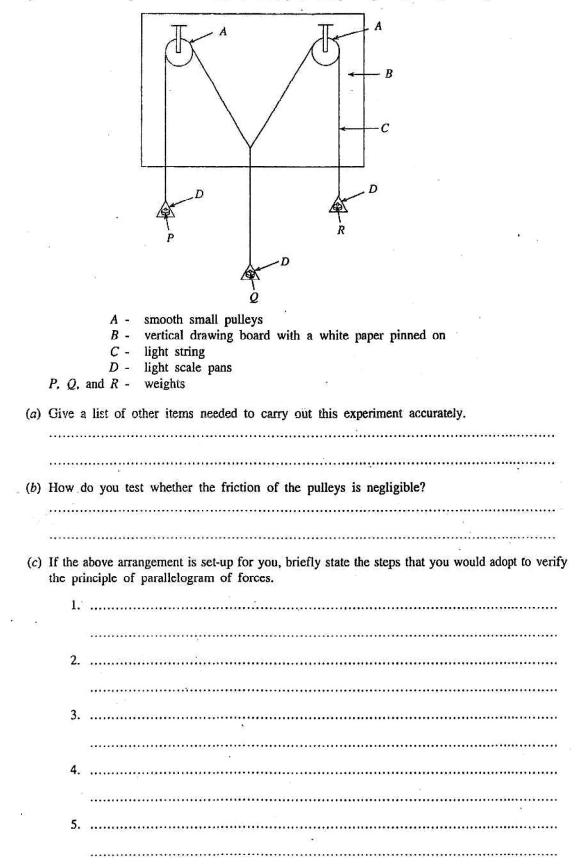
## 2005 A/L Structured Essay Question No (01)

Figure shows a set-up used in a school laboratory to verify the principle of parallelogram of forces.



(d)	In order to carry out this experiment light strings should be used.	What is the reason for this?
(e)	After completing the parallelogram correctly, a student noticed that the direction of the relevant diagonal was not exactly vertical. Give a reason for this.	
(f)	If the scale pans are not light what should you do in order to carry o	out the experiment correctly?
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(g)	This set-up is used by a student to find the weight of a stone. The relevant sides of the force parallelogram are shown in the figure. Evaluate the weight of the stone $(1 \text{ cm} = 2 \text{ N})$ .	
	••••••	
		1 cm