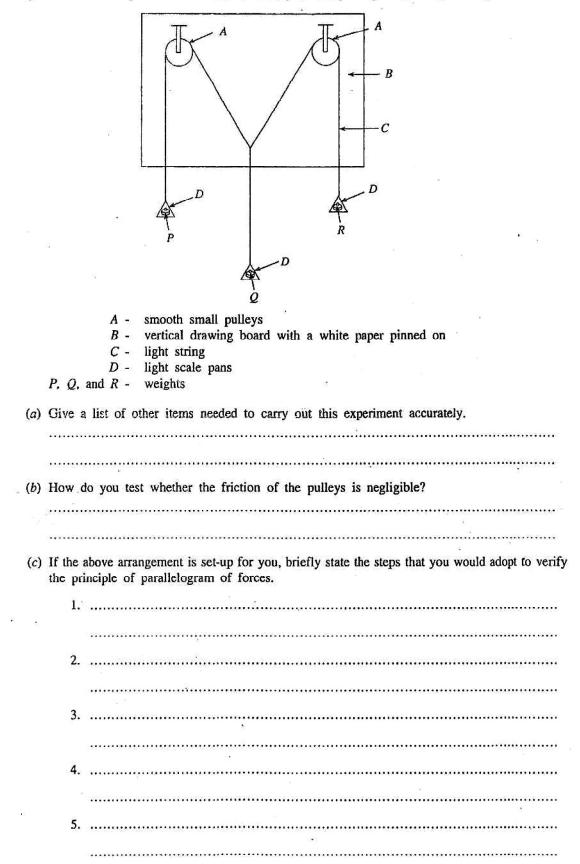
2005 A/L Structured Essay Question No (01)

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. | |
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| (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 |