SMART EXAM RESOURCES SUBJECT: PHYSICS

TOPIC: TURNING EFFECT OF A FORCE SET-1-QP-MS

1 (a) Fig. 1.1 shows a helicopter which is stationary at a height of 1500 m above the ground.

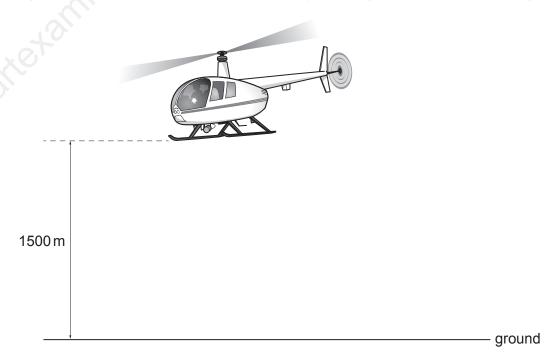


Fig. 1.1 (not to scale)

| (i) | State the two conditions necessary for the helicopter to remain in equilibrium. |
|-----|--|
| | condition 1 |
| | |
| | |
| | condition 2 |
| | |
| | [2] |

MARK SCHEME:

| no resultant / net force | В1 |
|--------------------------|----|
| no resultant/net moment | B1 |

| object in equilibrium. You may draw a diagram in the space provided. |
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| |
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| |
| [3] |
| |

MARK SCHEME: