

Question Number	Answer	Mark																																								
14*	<p>This question assesses a student’s ability to show a coherent and logically structured answer with linkages and fully-sustained reasoning. Marks are awarded for indicative content and for how the answer is structured and shows lines of reasoning. The following table shows how the marks should be awarded for indicative content and lines of reasoning.</p> <table><tr><th>IC points</th><th>IC mark</th><th>Max linkage mark available</th><th>Max final mark</th></tr><tr><td>6 or more</td><td>4</td><td>2</td><td>6</td></tr><tr><td>5</td><td>3</td><td>2</td><td>5</td></tr><tr><td>4</td><td>3</td><td>1</td><td>4</td></tr><tr><td>3</td><td>2</td><td>1</td><td>3</td></tr><tr><td>2</td><td>2</td><td>0</td><td>2</td></tr><tr><td>1</td><td>1</td><td>0</td><td>1</td></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td></tr></table> <table><tr><th></th><th>Marks</th></tr><tr><td>Answer shows a coherent and logical structure with linkages and fully sustained lines of reasoning demonstrated throughout.</td><td>2</td></tr><tr><td>Answer is partially structured with some linkages and lines of reasoning</td><td>1</td></tr><tr><td>Answer has no linkages between points and is unstructured</td><td>0</td></tr></table> <p>Indicative content:</p> <p>IC1 The force of the lift/scales on the student is the reading on the scales Or The reaction/contact force is the reading on the scales</p> <p>IC2 At constant speed, the resultant force on the student is zero Or Weight/<i>W</i> = Reaction/<i>R</i></p> <p>IC3 At constant speed the reading on the scales would be 600 N. Or At rest the reading on the scales would be 600 N</p> <p>IC4 As lift decelerates reaction is less than weight</p> <p>IC5 As the lift decelerates there is a resultant downward force (on the student).</p> <p>IC6 As the lift decelerates the reading on the scales will be less than 600 N (because the upward force on the student is less than his weight)</p>	IC points	IC mark	Max linkage mark available	Max final mark	6 or more	4	2	6	5	3	2	5	4	3	1	4	3	2	1	3	2	2	0	2	1	1	0	1	0	0	0	0		Marks	Answer shows a coherent and logical structure with linkages and fully sustained lines of reasoning demonstrated throughout.	2	Answer is partially structured with some linkages and lines of reasoning	1	Answer has no linkages between points and is unstructured	0	6
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6 or more	4	2	6																																							
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	Total for question 14	6																																								