

Question Number	Answer	Mark																																								
15	<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><b>Indicative content</b></p> <ul style="list-style-type: none"><li>• In stage 1 the kinetic energy of the jumper is increasing</li><li>• Because work is done by gravitational force</li><li>• In stage 2 the kinetic energy of the jumper is increasing but at a decreasing rate</li><li>• Because work is done on the cord (as the cord stretches) (as well as increasing k.e.)</li><li>• In stage 3 the kinetic energy of the jumper is decreasing</li><li>• Because work is done on the cord at a greater rate than the gravitational force does work on the jumper</li></ul> <p><b>Or</b></p> <p>He comes to rest because the total work done by gravitational forces is equal to work done stretching the bungee</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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Total for question 15		6																																								