MODULE: Marvellous Motion

Pre Test
Marking Scheme

1. The picture contains birds, clouds, and a parachutist. Which of these objects is the force of gravity pulling on?
   A  The parachutist only.
   B  The parachutist, the birds, and the clouds.
   C  The parachutist and the birds only.
   D  The birds and the cloud only.

   Answer B  (1 mark)

2. Complete the missing data in the table below.

<table>
<thead>
<tr>
<th>Time (seconds)</th>
<th>Distance (metres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>30</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>60</td>
</tr>
<tr>
<td>5</td>
<td>75</td>
</tr>
</tbody>
</table>

   Answer 45  (1 mark)
3. Which of the following sentences describes the motion shown in the distance-time graph?

A A car slowing down.
B A person standing still.
C A car speeding up.
D A car moving at a steady speed.  

Answer D  (1 mark)

4. In physics, ‘work’ is done when an object is moved in the direction of an applied force. In which one of these pictures is work being done?

A

B

C

D  

Answer B  (1 mark)
5. Compare the two graphs and choose the correct explanation.

A Both graphs show objects speeding up.
B Both graphs show objects travelling at steady speeds.
C Both graphs show stationary objects.
D Both graphs show objects slowing down.

Answer B (1 mark)