

Question number	Answer	Notes	Marks
7 (a)	<p>paint particles are positively charged;</p> <p>paint particles repel/like charges repel;</p> <p>producing a thin / even coat of paint;</p>	<p>ignore statements relating to paint as a whole being attracted to the object</p> <p>allow idea of particles being given same charge condone particles being negatively charged</p> <p>Allow idea that paint particles are attracted to the electrons in the (metal) object</p> <p>allow idea that paint finish is improved allow idea that paint reaches parts that would otherwise be difficult</p>	3
(b)	<p>any three from:</p> <p>MP1. object becomes charged when paint particles land on it;</p> <p>MP2. (without earthing) further paint particles would be repelled by the object as they have the same charge;</p> <p>MP3. earthing discharges object;</p> <p>MP4. electrons transferred between Earth and object;</p> <p>MP5. (earthing means) paint continues to reach object/ giving thicker coat/give even coverage;</p>	<p>allow 'neutralises object' or 'object becomes neutral'</p>	3

Total for question 7 = 6 marks