

Question number	Answer	Notes	Marks										
4 (a)	<p>one mark for each correct tick;; if three ticks, 1 mark maximum if four ticks, zero marks</p> <table><tr><th>Statement</th><th>Tick</th></tr><tr><td>negatively charged particles move from the cloth onto the balloon</td><td>✓</td></tr><tr><td>positively charged particles are rubbed off the balloon</td><td></td></tr><tr><td>negatively charged particles on the balloon are protons</td><td></td></tr><tr><td>the cloth becomes positively charged</td><td>✓</td></tr></table>	Statement	Tick	negatively charged particles move from the cloth onto the balloon	✓	positively charged particles are rubbed off the balloon		negatively charged particles on the balloon are protons		the cloth becomes positively charged	✓		2
Statement	Tick												
negatively charged particles move from the cloth onto the balloon	✓												
positively charged particles are rubbed off the balloon													
negatively charged particles on the balloon are protons													
the cloth becomes positively charged	✓												
(b) (i)	any 1 of: (possibility of a) spark; (possibility of an) explosion / fire / eq;	ignore references to shock  allow 'ignite the petrol'	1										
(ii)	earthing / grounding the { tank / pipe };	allow hose for pipe allow can for tank allow description of earthing e.g. 'connecting tank/pipe to ground (with a wire)'	1										
(c)	(granules) repel;  (because) charge on the granules is all the same / eq;	ignore references to attraction to container	2										

Total for question 4 = 6 marks