This question is about electrostatic charges.

electrons

(a) Complete the sentences using words from the box.

Each word may be used once, more than once or not at all.

negative

(2)

protons

When a plastic rod is rubbed with a cloth, the plastic rod gains
After the plastic rod has been rubbed with the cloth, the plastic rod has a
charge.

neutrons

positive

neutral

(b) Electrostatic charges can be useful during paint spraying.



(i) The droplets of paint are given the same charge as they leave the sprayer. Explain why this is an advantage.

(2)



(ii)	The droplets of paint are positively charged.	
	The object being painted is given a negative charge.	
	Explain why this is an advantage.	
		(2)
Giv	ve one hazard caused by electrostatic charges and state how the risk from this	
haz	zard can be reduced.	
haz	zard can be reduced.	(2)
haz	zard can be reduced.	(2)
haz	zard can be reduced.	(2)
haz	zard can be reduced.	(2)
haz	zard can be reduced.	(2)
haz	zard can be reduced.	(2)
haz	zard can be reduced.	(2)
haz	zard can be reduced. (Total for Question 3 = 8 ma	
haz	zard can be reduced.	
haz	zard can be reduced.	
haz	zard can be reduced.	

