

Question number	Answer	Notes	Marks
3 (a)	electrons; negative;		2
(b) (i)	(droplets) repel each other / repulsive force / like charges repel; (droplets) spread out / finer spray;	Ignore: attraction of paint to object Ignore: references to paint sticking	2
(ii)	Any two from (object) attracts droplets /paint OR opposite charges attract; paint reaches back of object / obscured places (at same time); less paint wasted;	Ignore: references to paint sticking	2
(c)	risk of spark / shock /damage;  related risk reduction; e.g. earth connection, appropriate use of insulation	Accept: lightning, fire, explosion, Reject: risks from current electricity  risk reduction method needs to apply to stated risk Accept: earthed, earthing, grounding, rubber gloves Reject: "rubber earth strip (under cars)"	2