Question number	Answer	Notes	Marks
1 (a) (i)	idea of rubbing / friction; with another insulator;	allow suitable named insulator e.g. duster, cloth, hair etc.	2
(ii)	C (-0.0052 C);		1
	A is incorrect because this is equivalent to -520 mC B is incorrect because this is equivalent to -52 mC D is incorrect because this is equivalent to -0.52 mC		
(iii)	A (the rod has gained negatively charged electrons);		1
	B is incorrect because electrons are not positively charged C is incorrect because this would make the rod positively charged D is incorrect because electrons are not positively charged		
(iv)	suitable method of demonstrating; correct observation;	 e.g. place rod on electroscope place rod near stream of water from a tap place rod near hair place rod above small pieces of paper place rod near another (charged) rod e.g. leaf on electroscope deflects water moves towards rod hair moves towards rod paper moves towards rod rods move towards/away from each other 	2
(b) (i)	photocopiers / inkjet printers / smoke precipitators / (electrostatic) spray painting;	allow any correct use	1
(ii)	risk of a spark; (causing) explosion / fire;		2

Total for Question 1 = 9 marks