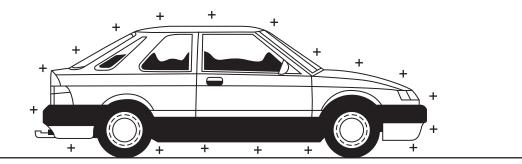
**4** A car becomes electrically charged as it travels along a road.



(a)	(i)	Explain how a	moving car	hecomes e	electrically	charged.
(u)	(1)	Explain now a	moving car	DCCOIIIC3 (	ciccuitcaily	chargea.

(2)

(ii) Why does this charge remain on the car after it has stopped moving?

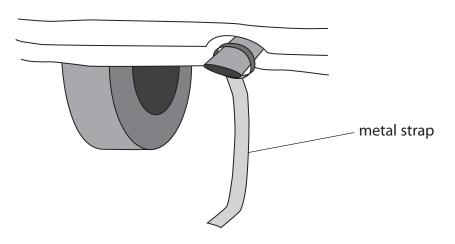
(1)



(b) Some people prefer to prevent their car from becoming charged.

They do this by fixing a metal strap underneath the car.

The metal strap rubs on the ground as the car moves.



(i) Suggest why it is safer to have no electrical charge on a car.

(1)

(ii) Explain how the metal strap prevents a car from becoming charged.

(2)

(Total for Question 4 = 6 marks)