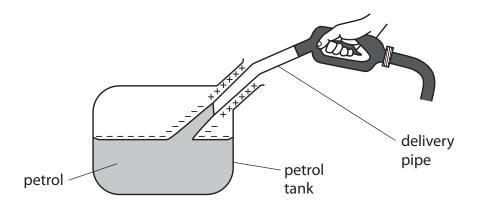
- 4 This question is about electric charge.
  - (a) When a balloon is rubbed with a cloth, the balloon becomes negatively charged. Tick ( $\checkmark$ ) the two correct statements in the table.

(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) When petrol passes through a delivery pipe, electrostatic charge can build up as shown in the diagram.



(i)	Give a	reacon	why a	huild-un	of charge	can h	a dana	Arous
111	GIVC a	I Casoni	vviiv a	Dulla ub	OI CHAIAC	Carro	'C Garia	CIOUS

(1)

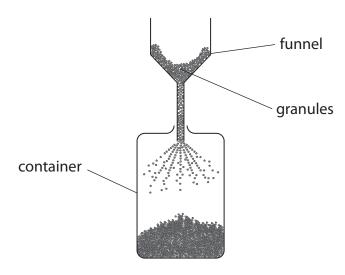


(1)



(c) The diagram shows coffee granules passing through a funnel into a container.

As the granules pass through the funnel, they gain an electrostatic charge and spread out as they fall.



Fxn	lain.	in	terms	of	charges.	why the	granules	spread	out
rv	ıaıı,	1111	(CIIII3	Oi	charges,	willy tile	granuics	spicau	out

(2)

(Total for Question 4 = 6 marks)

