8 In some countries, snow can fall and collect on the ground.

Diagram 1 shows that after the snow has fallen, the sky can be clear, leaving the snow directly exposed to the Sun.



snow

ground

Diagram 1

(a)	Explain why the white snow	will ta	ke a lo	ong time	to melt	, even	though	directly	y
	exposed to the Sun.								

(2)

(b) Diagram 2 shows a different piece of ground that has a metal drain cover.

If the snow lands on metal, the snow takes a shorter time to melt.



snow

metal drain cover

ground

Diagram 2

Explain why the snow melts in a shorter time on the metal drain cover.

	(2)
(c) Explain how a convection current above the snow increases the time taken for the snow to melt.	(2)



(Total for Question 8 = 6 marks)