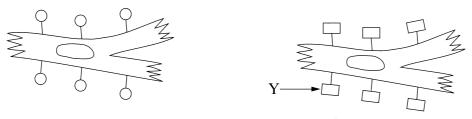
## **Question 28** (8 marks)

Organ transplants may trigger an immune response which can lead to organ rejection.

The diagram below represents a model of two heart cells, one from a transplant recipient and one from a donor.



Recipient heart cell

Donor heart cell

	(a)	What does Y represent?  Protien and sen	1
		1 10 Men Jans gen	
	(b)	Assess the effectiveness of the model in explaining the cause of organ rejection	3
T	beli	in a transplant recipient. Levethe model isn't very effective as	
	<i>5</i> C ((		
		Hot Heir Barage Affer has Balleyorga	
		have (markers) protiens on excla to protect	
		it from your immuse system,	
	(c)	Name and outline the role of TWO types of T lymphocytes in organ rejection.	4
		I memory cells! These remember and pathoge	organ
		and so are ready to create many Kille	1
		Teels to destroy it	
		Niller l'cells! These destroy infruders	
		in a body so they try to destron	5-
		a transflunded organ, Thus The regents on	t