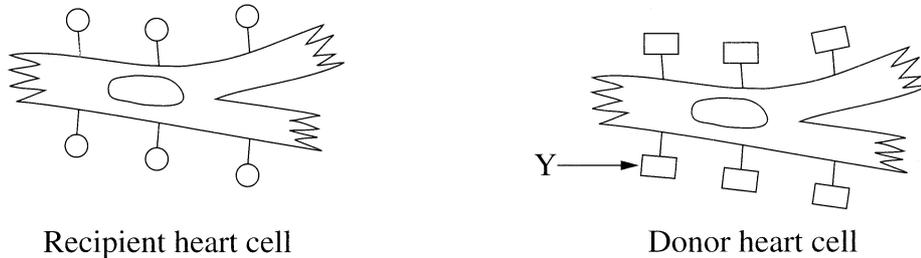


Question 28 (8 marks)

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.



- (a) What does Y represent? 1

..... protein ~~or DNA~~ - DNA - blood type.....

- (b) Assess the effectiveness of the model in explaining the cause of organ rejection in a transplant recipient. 3

..... The \bigcirc and \square are different so binding
 could not occur. Therefore the cells would
 respond to the other - as an outsider

- (c) Name and outline the role of TWO types of T lymphocytes in organ rejection. 4

..... killer T - ~~creates a barrier to~~ kills cells

 memory T - protects cell giving the cell a
 false identity

