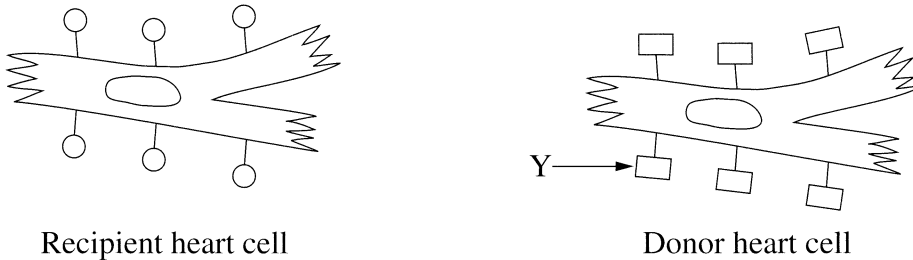


Question 28 (8 marks)

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

the cells defence mechanism

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

by using the different shapes of a circle and square, it shows that how that if it doesn't all match up then it will be rejected

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

Killer T cells - when an organ is rejected they are sent to destroy the organ
Suppressor T cells -