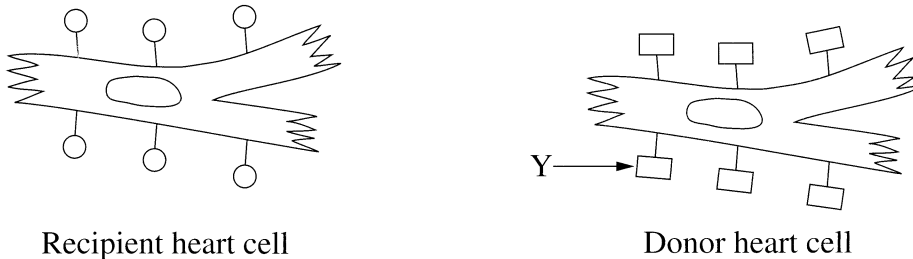


Question 28 (8 marks)

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

Immune System

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

In recipient heart cell - it is effective but
sometimes in order for them to functions
properly you have to take like some
medicines OR antibiotics for the immune
system to be working because organ transplant
doesn't ~~give~~ ~~is~~ working if it rejected by
immune system.

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

~~Secondary T cells~~ - recognise B cells and
T cells stimulate to reproduce plasma
cells.

Killer T cells - attach to the body affected by virus
and kill them.

Memory T cells