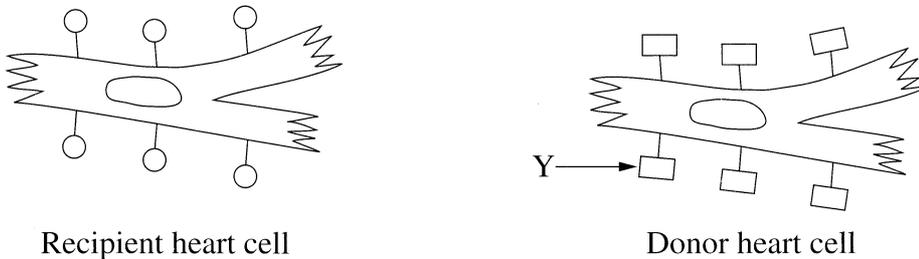


Question 28 (8 marks)

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 distance between 2 heart cell (eg. cell membrane)

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

When new organ transplants into the body, some part of the cell or organ will not be recognise by the body and its immune system. The immune system started to act as the new organ is a disease and need to be destroy. These will result in ~~the~~ organ rejection.

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

Helper T cell will activate and clony B cell when it recognise the ~~the~~ new organ that ~~not~~ can't be recognise by the body. B cell then developed immune system to fight against the organ. The killer T cell also take part in organ rejection.