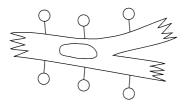
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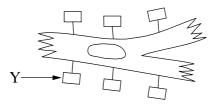
## Question 28 (8 marks)

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?

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

  The model is effective in that it shows the difference in ortiger markers between the two cells: However, it oversimplifies the concept. It also doesn't show the coles that artibodies and phagocytes play in organ rejection.

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

When all the to the presence of a foreign body.

Helper T alls affect B cells and 9515+ Men in

differ that my into plasma alls which produce antibodies.

Cyto boxic T cells, the fley encounter a foreign body.

such as an ergan transplant, they attempt to destroy it.