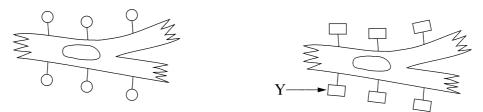
Question 28 (8 marks)

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

What does Y represent? (a)

(c)

I represents the individual person's ONA and genetic make-up.

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

3

1

Each person has a different generic more up that Is unique to them although they may powers similar characteristics in sell makely and bload compatability , Her ONA may not be a mater and therefore may cause the body to reject the Organ and anti-rejection drugs had to be taken to Consure that the bodie system close not attach to the really denoted organ. Name and outline the role of TWO types of T lymphocytes in organ rejection. 4 White Blood Cells and the immuse system may start to reject the rewly denoted organ therefore mono fighting, this making it harder to fight infection to T lymphcayter award with the production of anti-bachier therefore making it harder for a rewry analed argon to survice in a body that wonth to reject it.