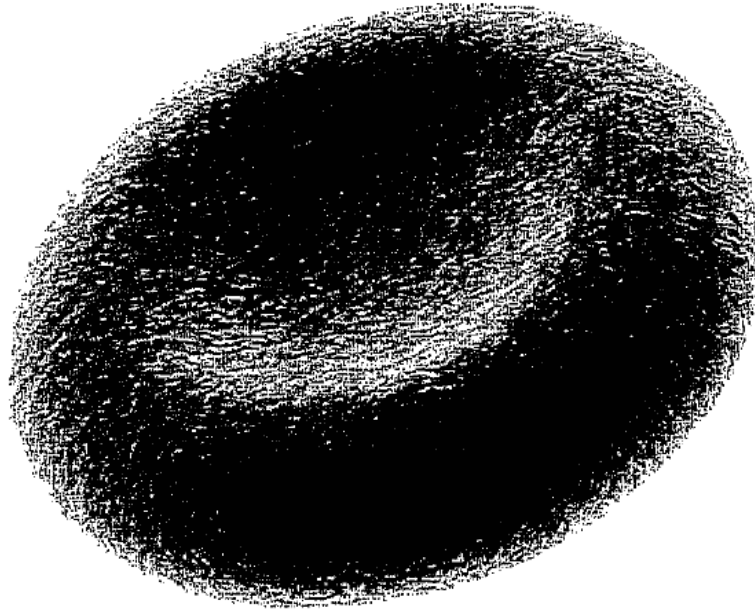


2009 Nov 2H Q2

2. The diagram shows a red blood cell.



(a) (i) What is the name of the pigment in the cell that helps it to absorb oxygen?

..... (1)

(ii) Explain how the shape of the cell helps it to absorb oxygen.

.....
.....
.....
..... (2)

2009 Nov 2H Q9 c)

- (c) A cloudy cornea can be replaced by one transplanted from a donor.
However, the transplanted cornea is sometimes rejected by the immune system.
Despite the availability of immunosuppressive drugs, the rejection rate for transplanted corneas remains between 5 and 30%.

- (i) Suggest why a transplanted cornea may be rejected.

.....

.....

.....

.....

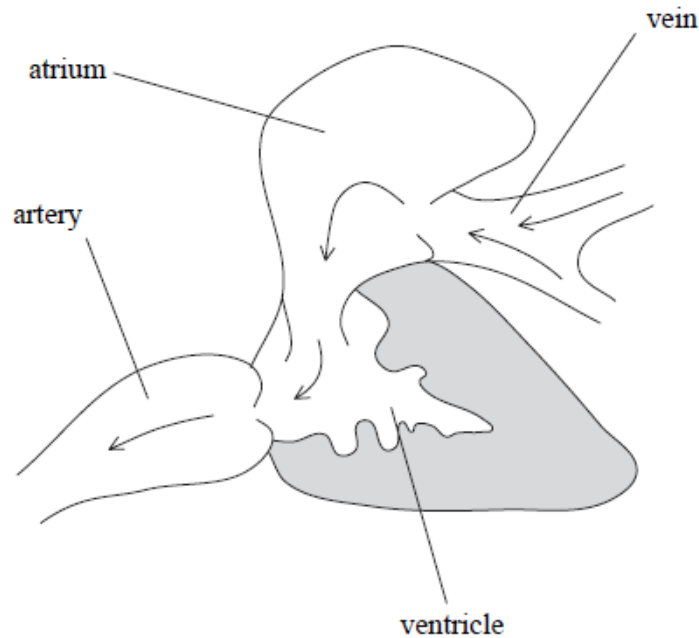
.....

(3)

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2007 Jun 2H Q11

11. The diagram shows a section through the heart of a freshwater fish. The arrows show the direction of blood flow.



- (a) (i) Give two ways in which the structure of the fish heart is similar to the heart of a human.

1

2 (2)

- (ii) Give two ways in which the structure of the fish heart differs from the heart of a human.

1

2 (2)

- (b) The circulation system of a human is known as a double circulation system. Suggest why the circulation system of a fish is known as a single circulation system.

.....

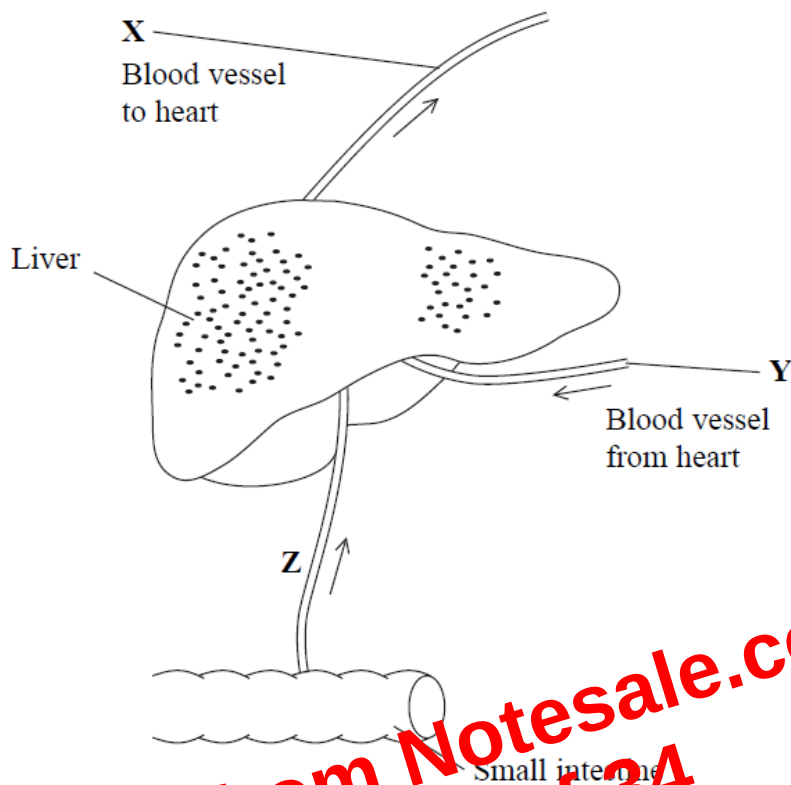
.....

.....

..... (2)

2006 Jun 2H Q4 a) to b)

4. The diagram shows the liver and three blood vessels, **X**, **Y** and **Z**. The arrows show the direction of blood flow.



- (a) Name the blood vessels labelled **X**, **Y** and **Z**.

X

Y

Z

(3)

- (b) Which blood vessel contains blood at the highest pressure?

.....

(1)

2005 Nov 2H Q11

11. The passage describes some functions of human blood. Write on the dotted lines the most suitable word or words to complete the passage.

Human blood consists of plasma and cells. The two main types of cells are red blood cells and white blood cells.

Red blood cells contain the pigment, which

transports White blood cells

prevent by engulfing pathogens or by

producing to destroy them.

The plasma is the liquid part of the blood and transports various waste substances

including and

If the skin is cut, cell fragments known as prevent

further blood loss by helping to the blood.

(Total 8 marks)

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