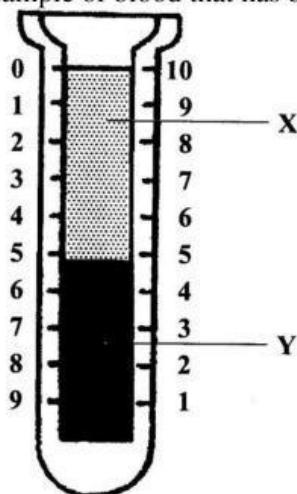


1. The diagram shows a test tube with a sample of blood that has been left standing for several hours.



a. (i) Name the parts labelled **X** and **Y**.

**X** \_\_\_\_\_ **Y** \_\_\_\_\_ [2]

(ii) What percentage of blood makes up part **X** and part **Y**?

Percentage part **X** \_\_\_\_\_

Percentage part **Y** \_\_\_\_\_

[2]

(iii) What is the major component of the part labelled **X**?

\_\_\_\_\_ [1]

(iv) Name **TWO** other substances found in the part labelled **X**.

\_\_\_\_\_ [2]

b. Phagocytes and lymphocytes both kill germs. Explain how they differ in their function.

i. Phagocytes

\_\_\_\_\_

ii. Lymphocytes

\_\_\_\_\_ [2]

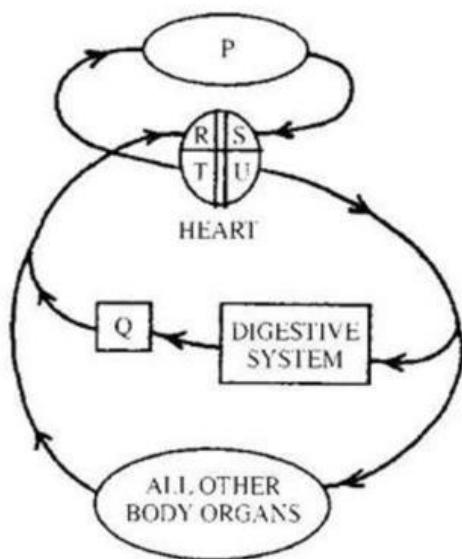
c. Human beings have four blood groups/types.

Which blood group is known as “Universal Donor”?

\_\_\_\_\_ [1]

**TOTAL MARKS [10]**

2. This diagram is a simplified plan of the human circulatory system. The arrows on the diagram represent the direction of blood flow.



R \_\_\_\_\_  
S \_\_\_\_\_  
T \_\_\_\_\_  
U \_\_\_\_\_

[4]

a. Write the names of the parts of the diagram labelled R, S, T and U.

b. What body organs are represented by P and Q on the diagram?

P \_\_\_\_\_

Q \_\_\_\_\_

[2]

c. Describe two ways that blood changes as it flows through the part labelled P on the diagram.

i. \_\_\_\_\_

\_\_\_\_\_

ii. \_\_\_\_\_

\_\_\_\_\_

[2]

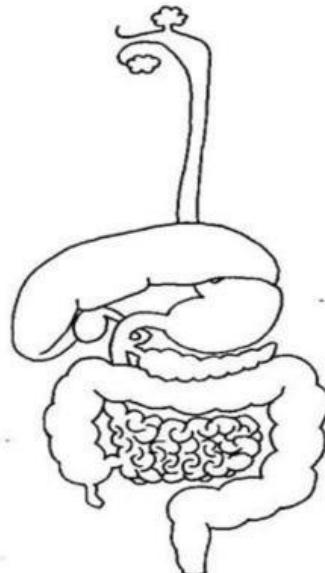
d. Name the kind of blood vessels that

i. Have valves in them \_\_\_\_\_

ii. Have thick, muscular walls with no valves. \_\_\_\_\_ [2]

**TOTAL MARKS [10]**

3. This diagram represents the human digestive system.



a. On the diagram, label the stomach, the liver and the pancreas. [3]

b. (i) Where does the process of chemical digestion begin?

---

(ii) Where does the process of chemical digestion end?

---

[2]

c. What is the function of bile? Where is it produced? Where is it stored before it is used?

i. Function \_\_\_\_\_

ii. Where produced\_\_\_\_\_

iii. Where stored\_\_\_\_\_ [3]

d. Name one digestive enzyme and describe what it does (i.e. what food it acts upon and what it changes that food to).

i. Enzyme:\_\_\_\_\_

ii. What it does:\_\_\_\_\_ [2]

**TOTAL MARKS [10]**