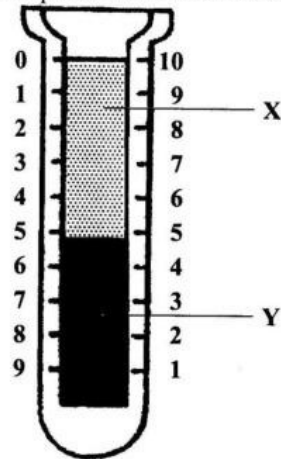


1. The diagram shows a test tube with a sample of blood that has been left standing for several hours.



- 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

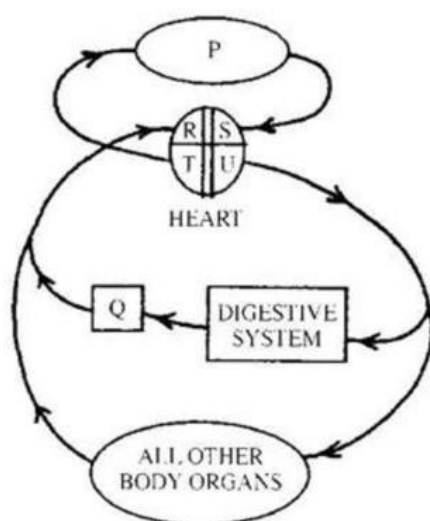
\_\_\_\_\_  
\_\_\_\_\_ [2]

- 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]

- Write the names of the parts of the diagram labelled R, S, T and U.
- What body organs are represented by P and Q on the diagram?

P \_\_\_\_\_

Q \_\_\_\_\_

[2]

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

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

\_\_\_\_\_

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

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

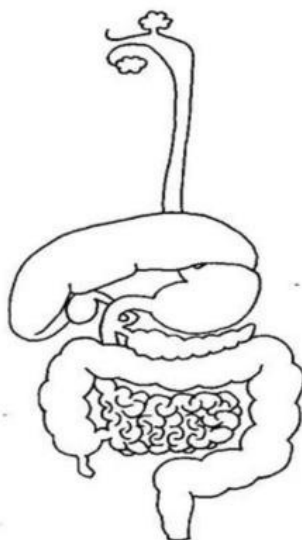
- Name the kind of blood vessels that

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]**