

Name \_\_\_\_\_

Date: \_\_\_\_\_

**NEED FOR CIRCULATORY SYSTEM**

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**MAIN FUNCTIONS OF THE CIRCULATORY SYSTEM-**

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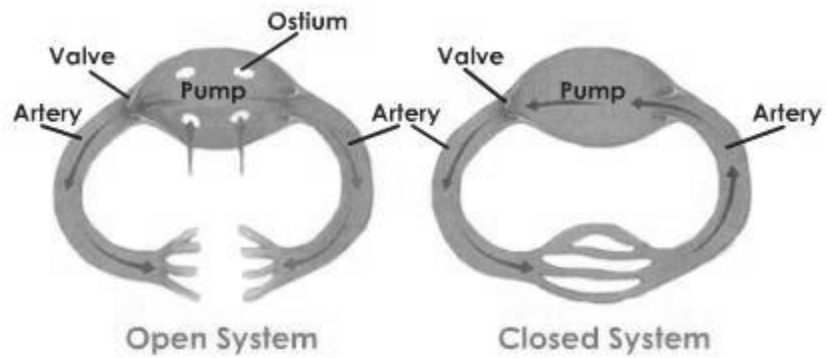
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**OPEN AND CLOSED CIRCULATORY SYSTEM**



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FLUIDS IN OUR BODY-

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BLOOD

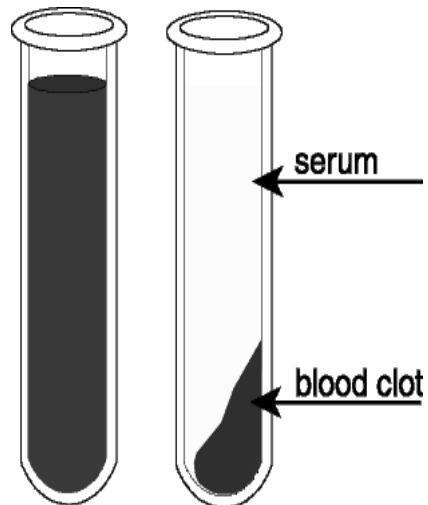
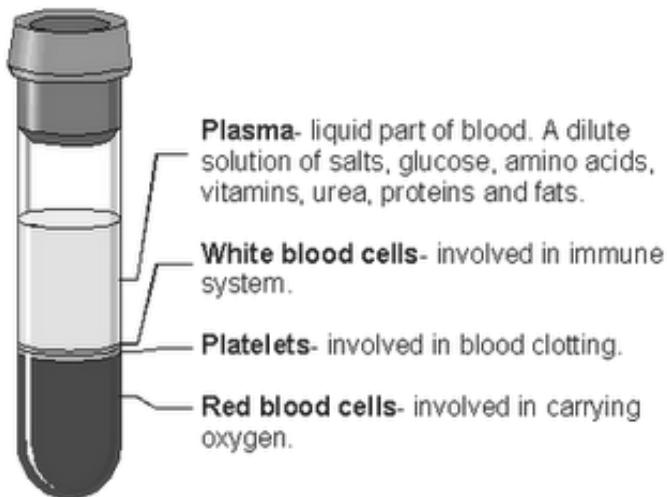
NATURE .....

AMOUNT OF BLOOD IN ADULT.....

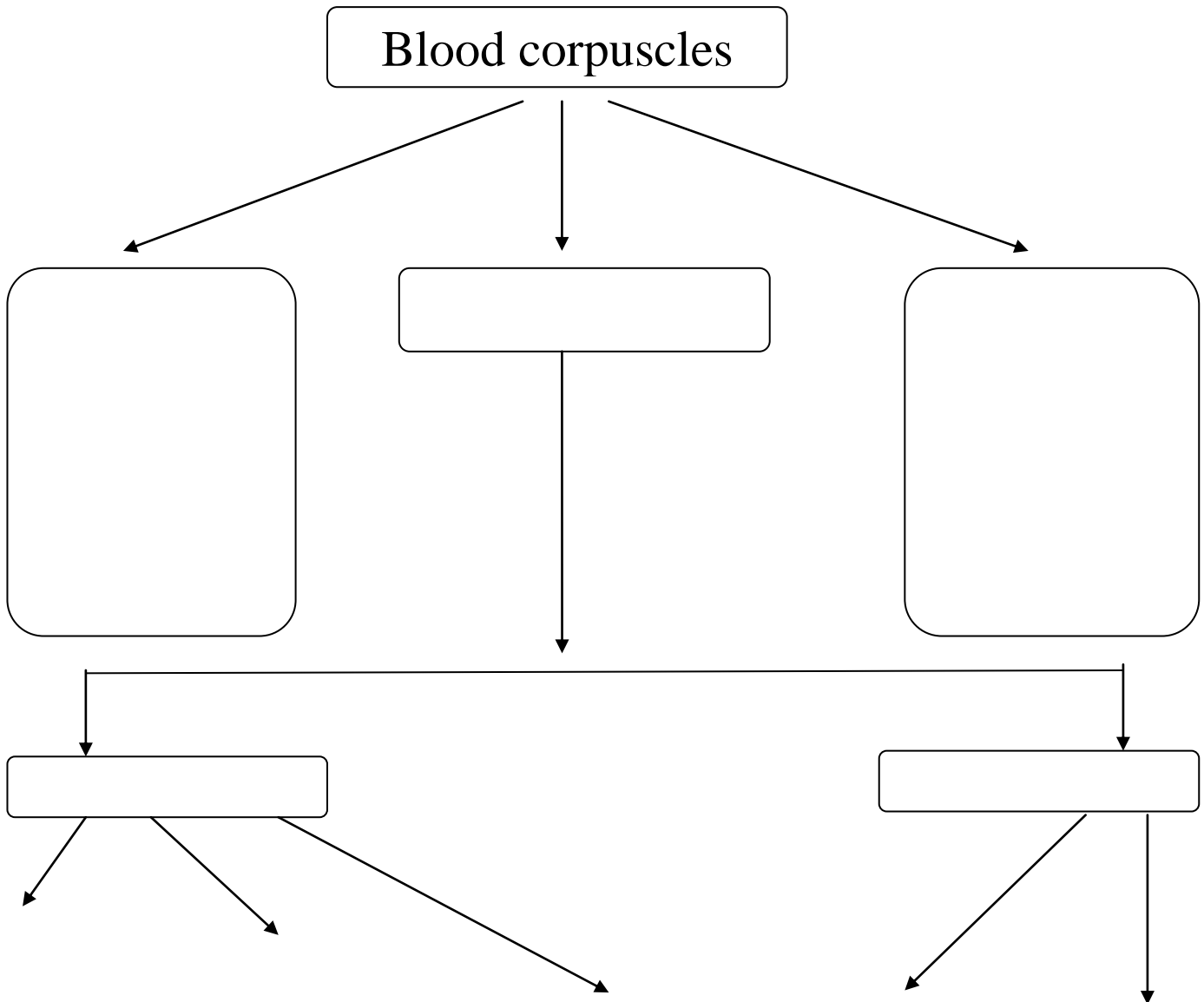
pH .....

Consists of

- 1.
- 2.



Blood plasma	Blood serum



## RED BLOOD CELLS

Technical name-

Shape-

Cell organelles-

Size-

Normal count of rbc-

Function-

### RESPIRATORY PIGMENT-

When pigment combines with oxygen it forms-

When it gives up oxygen-

When pigment combines with carbon di oxide it forms-

When pigment combines with carbon mono oxide it forms-

Life span of RBC

Their production –

    In adults

    In embryo

Destroyed in

Abnormal increase in RBC

Abnormal decrease in RBC

## WHITE BLOOD CELLS

Technical name-

Structure-

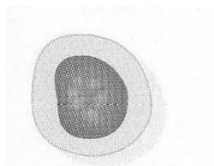
Size-

Normal count-

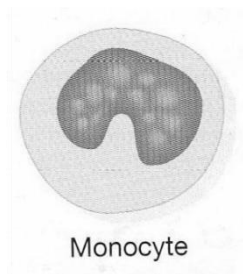
Characteristics of WBC

## TYPES

AGRANULOCYTES-

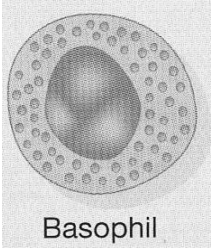


Lymphocyte

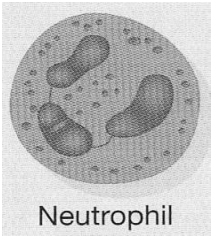


Monocyte

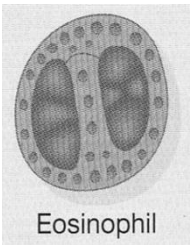
GRANULOCYTES-



Basophil



Neutrophil



Eosinophil

Functions of WBC

**BLOOD PLATELETS**

Technical name:

Shape

Function-

Blood clotting-

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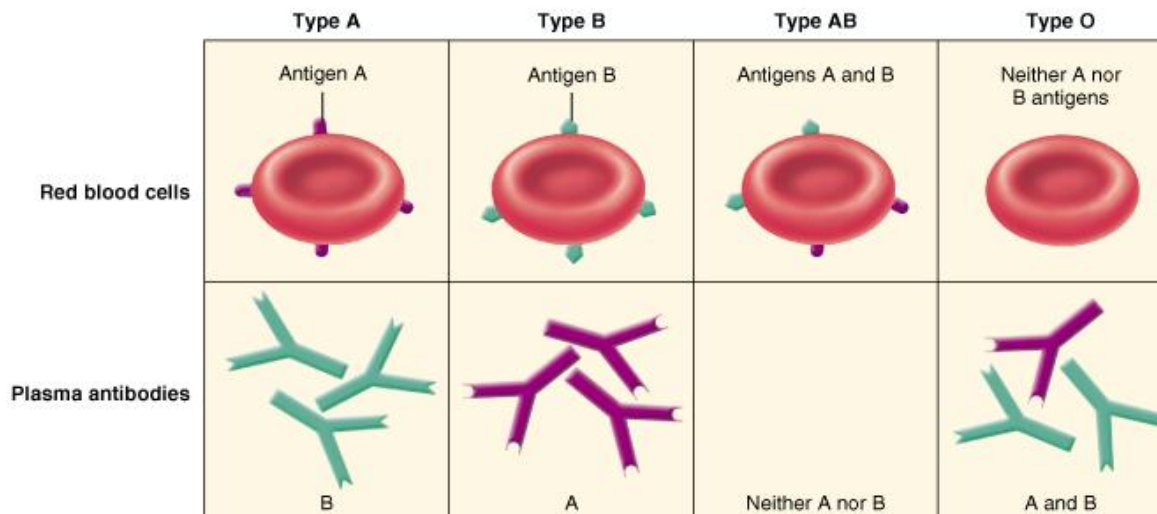
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When a cut is formed-

1. \_\_\_\_\_ is released by platelets
2. Blood contains \_\_\_\_\_, that is activated by rupturing of platelets
3. This converts \_\_\_\_\_ to \_\_\_\_\_.
4. Which converts \_\_\_\_\_ to \_\_\_\_\_
5. \_\_\_\_\_ is insoluble and forms a \_\_\_\_\_
6. This traps the RBC to form a \_\_\_\_\_

Blood group



Heart –

Location \_\_\_\_\_

The layer of the heart \_\_\_\_\_

The walls of the heart

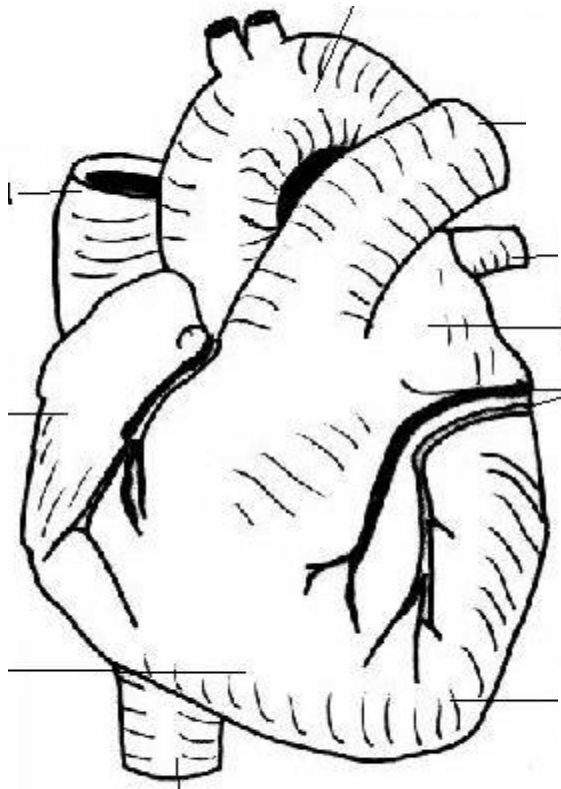
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\_\_\_\_\_

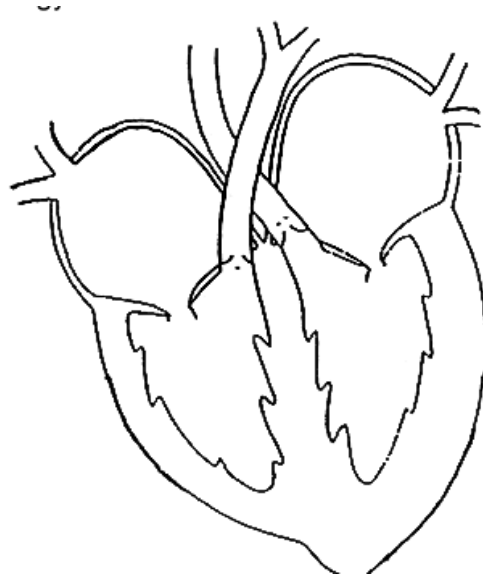


### EXTERNAL STRUCTURE OF HEART

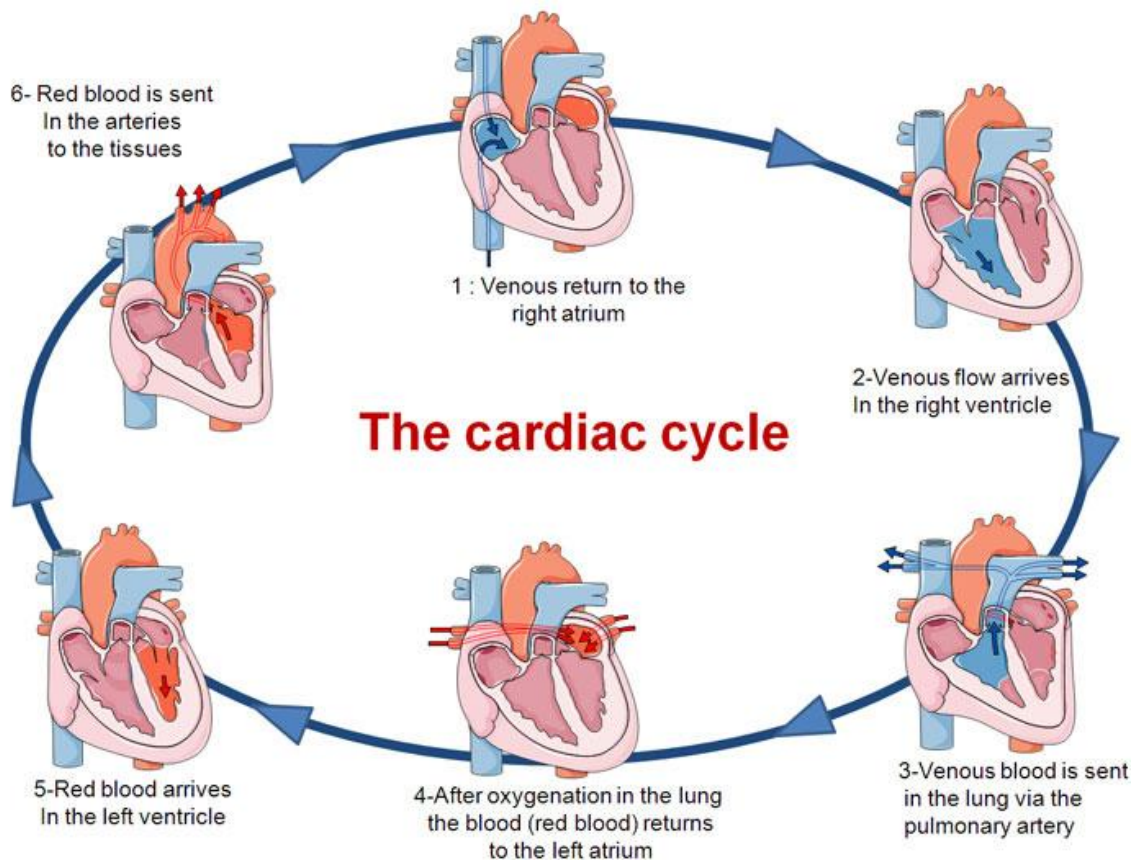




INTERNAL STRUCTURE OF HEART



CARDIAC CYCLE



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.....  
.....

Phases of cardiac cycle

1. ....  
.....
2. ....  
.....
3. ....  
.....
4. ....  
.....

\_\_\_\_\_ - contraction of the heart

\_\_\_\_\_ – relaxation of the heart

The first heart sound- \_\_\_\_\_ - due to closure of the AV valves

The second heart sound – \_\_\_\_\_ - due to closure of the SL valves

## BLOOD VESSELS

### ARTERY

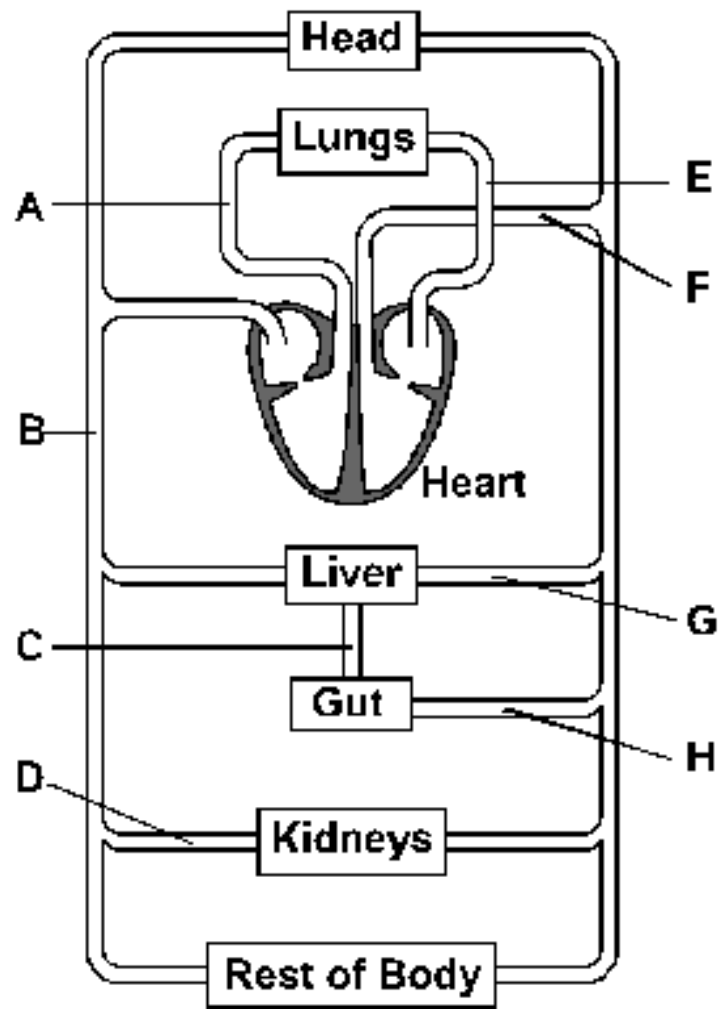
Structure	
Location	
Function	

### VEIN

Structure	
Location	
Function	

CAPILLARY:

BLOOD CIRCULATION



Double circulation

Pulmonary circulation

Systemic circulation

Blood pressure

Pulse

ECG (electrocardiogram)

Lymphatic system