



# BIOLOGY

## BOOKS - ICSE

### CIRCULATORY SYSTEM IN HUMANS

**Exercises Tick The Most Appropriate Answer**

1. Which of the following blood cells are without nuclei?

RBCs

WBCs

blood platelets

both a and c

A. RBCs

B. WBCs

C. Blood platelets

D. a and c

**Answer:**



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2. Blood cells that protect the body from diseases are the

A. erythrocytes.

B. leukocytes.

C. thrombocytes.

D. osteocytes.

**Answer:**



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3. Which of the following blood cells are responsible for the clotting of blood?

A. erythrocytes

B. leucocytes

C. thrombocytes

D. lymphocytes

**Answer:**



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4. The colour of the red blood cells is due to

A. haemoglobin.

B. oxygen.

C. carbon dioxide.

D. none of these

**Answer:**



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5. The finest of all blood vessels are the

A. veins.

B. arteries.

C. venae cavae.

D. capillaries.

**Answer:**



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**6.** A person with blood group A has

A. antigen A and antibody B.

B. antigen B and antibody B.

C. antigen A and antibody A.

D. antigen O and antibody AB.

**Answer:**



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7. The device used to hear heartbeats is called

a

A. sphygmomanometer

B. manometer.

C. thermometer.

D. stethoscope.

**Answer:**



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## Exercises Fill In The Blanks

1. \_\_\_\_\_ are the blood vessels that carry blood away from the heart.





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2. \_\_\_\_\_ are thin-walled upper chambers of the heart.



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3. Oxygenated blood is found in the \_\_\_\_\_ side of the heart.



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4. The heart beats at an average of \_\_\_\_\_  
times per minute.



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5. The stretching and relaxing of arteries with  
each heartbeat felt as throbbing is called  
\_\_\_\_\_



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1. Haemoglobin combines with oxygen to form carboxyhaemoglobin.



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2. Leucocytes are larger than erythrocytes and contain haemoglobin.



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3. Veins connect arteries with capillaries.



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4. Name the membrane that encloses the heart.



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5. What kind of blood is present in right atrium (auricle)?



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# Exercises Define The Following Terms

1. Define erythrocytes



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2. Define. Rh-factor



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3. Deoxygenated blood





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4. Write short note on blood pressure



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## Exercises Answer The Following In Short

1. What is the circulatory system?



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2. Write the function of WBCs.



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3. Name the four blood groups in human beings. On what basis are they named?



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4. What are capillaries?



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5. What prevents blood from flowing in the wrong direction in the heart?



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6. Name the largest artery in the body.



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**Exercises Answer The Following In Detail**



1. What different types of cells will you see when you observe a drop of blood under a microscope? What are their functions?



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2. List various functions of blood.



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3. Differentiate between Arteries and Veins.



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4. Explain the process of blood circulation in the body with the help of a schematic diagram.



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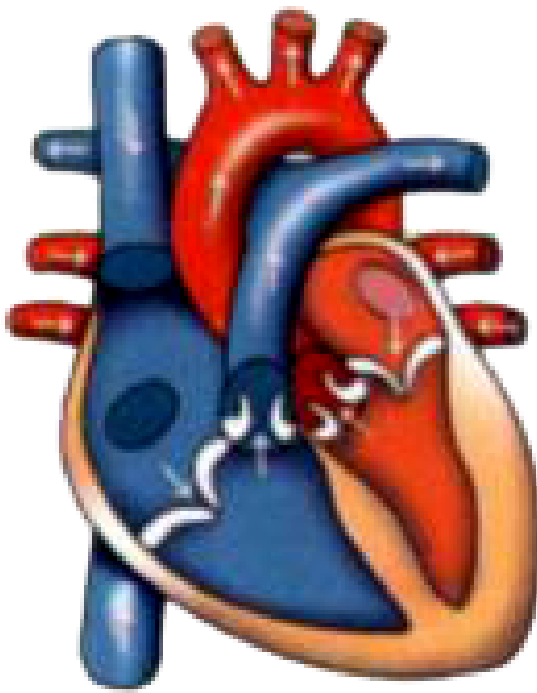
5. Why is the heartbeat rate equal to the arterial pulse rate?



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## Exercises

1. Given below is a diagram of the human heart. Draw it in your notebook and label the following parts.

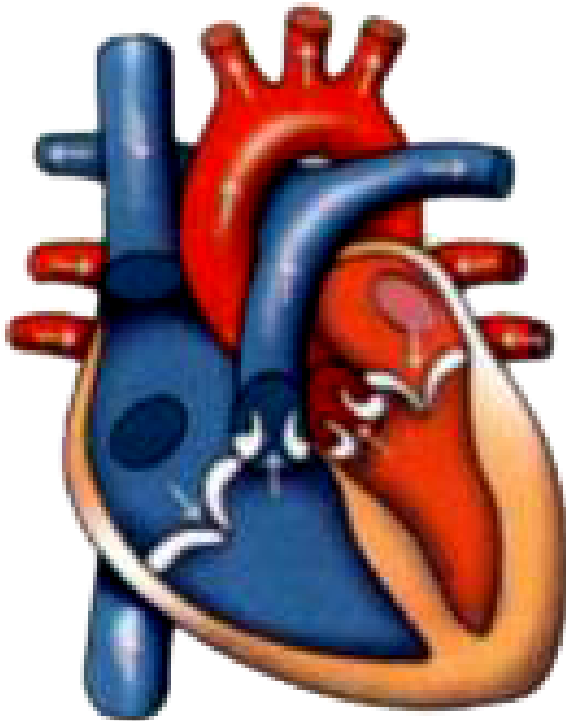


right auricle



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2. Given below is a diagram of the human heart. Draw it in your notebook and label the following parts.

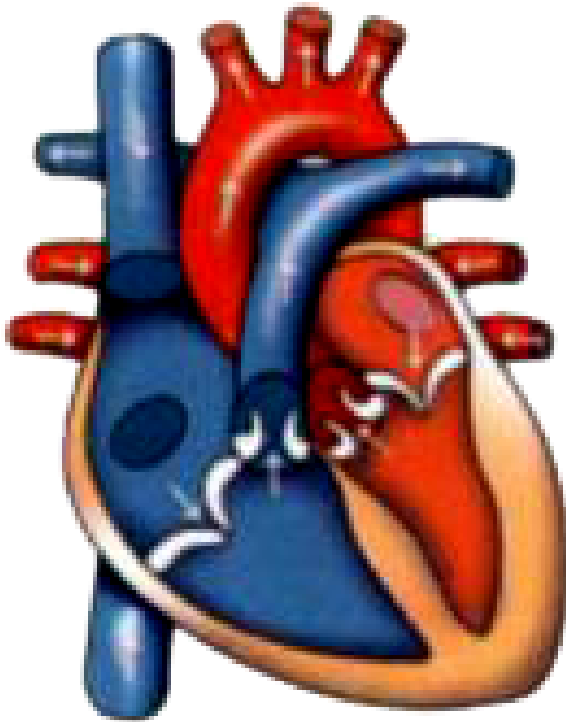


left ventricle



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3. Given below is a diagram of the human heart. Draw it in your notebook and label the following parts.

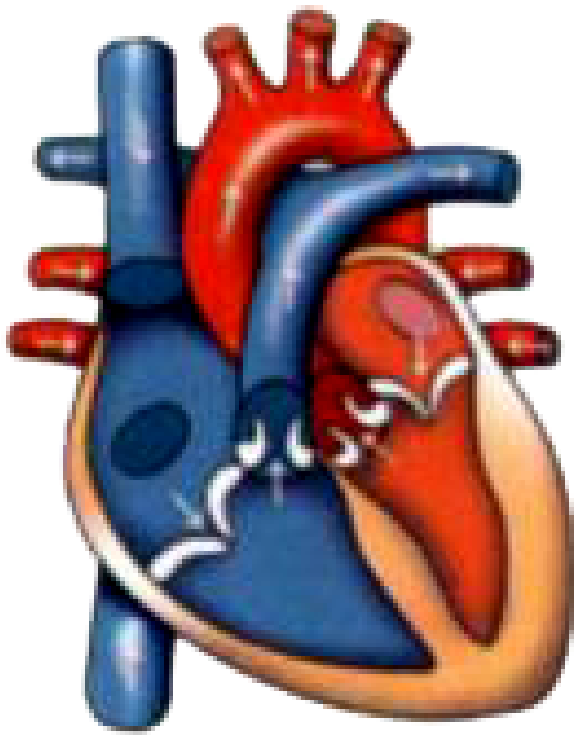


left ventricle



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**4.** Given below is a diagram of the human heart. Draw it in your notebook and label the following parts.



right ventricle



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[Check Your Progress Fill In The Banks](#)



1. Blood is a fluid \_\_\_\_\_ tissue.



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2. The liquid part of the blood is called \_\_\_\_\_.



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3. Erythrocytes are red in colour because of the presence of a protein called \_\_\_\_\_.



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4. \_\_\_\_\_ are the blood vessels that carry blood away from the heart.



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5. \_\_\_\_\_ are the fine blood vessels connecting arteries with veins.



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## Check Your Progress True Or False

1. The heart is enclosed in a double-layered membrane called pericardium.



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2. The upper chambers of the heart are called ventricles.



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**3.** The lower chambers of the heart pump the blood out of the heart.



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**4.** The circulation of blood between the heart and lungs is called systemic circulation.



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