

HUMAN CIRCULATORY SYSTEM.

A Tick (✓) the correct answer:

1. Which of the following organs pumps blood?

(b) Heart

2. Auricles and ventricles are

(c) ~~Heart~~ Chambers.

3. Plasma is a

(a) liquid

4. We can feel the pressure of movement of blood through the

(a) Artery.

B Fill in the blanks with the correct word.

1. Arteries carry oxygenated blood from the heart to body parts.

2. The circulatory system regulates the body temperature.

3. Platelets prevent loss of blood.

4. Pulse rate is counted using instrument called stethoscope.

5. Haemoglobin is the red coloured pigment found in blood

Answer the following questions:

1. What are the different parts of human circulatory system?

Ans. The different parts of human circulatory system are (i) heart (ii) blood vessels and (iii) blood.

2. Name three types of blood vessels and describe their features.

Ans. The three types of blood vessels and their features are as follows:-

(i) Arteries :- are thick-walled blood vessels which carry blood from the heart to all parts of the body. They carry pure or oxygenated blood.

(ii) Veins :- are the thin-walled blood vessels which carry blood back to the heart. They bring back the impure blood loaded with waste products.

(iii) Capillaries :- are very thin blood vessels. A network of capillaries forms the connection between the arteries and the veins near a tissue.

Write functions of the following:

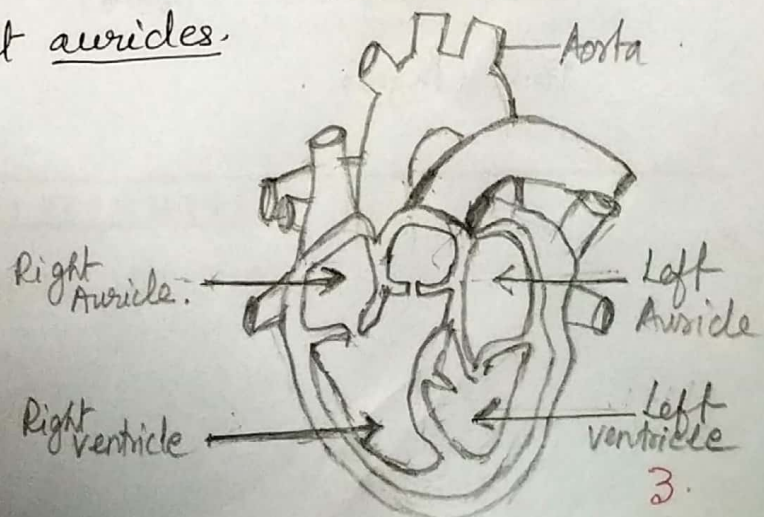
(a) WBC'S :- They play an important role in fighting infection and destroy germs.

(b) Blood :- It supplies important nutrients to all the cells in the body.

(c) Blood :- Through these network of tubes, the vessels blood is carried to different parts of the body.

34. Describe the structure of heart :

Human heart is a muscular pumping organ and is located in the chest cavity slightly towards the left, enclosed in a sac. The adult human heart is about the size of a fist and is protected by the rib-cage. It is built like a double-storey house, with two chambers in each storey. On the lower side there are right and left ventricles and on the upper side there are the right and left auricles.



Q5. Discuss circulation of blood in human heart.

Ans. The blood circulates in our body in the following ways:

1. Pulmonary vein carries oxygen rich blood from the lungs to the left ventricle of the heart.
 2. The heart pumps the oxygen rich blood to the aorta. Aorta is the primary artery to supply blood to whole body.
 3. From the aorta, the blood moves to different arteries to supply pure blood to all parts of the body.
 4. Veins carry carbon dioxide rich blood from different parts to venacava.
 5. Vena cava is the main vein that brings impure blood to the right auricle of the heart.
 6. The heart pumps carbon-dioxide rich blood to the pulmonary artery that carries it to lungs.
 7. Exchange of gases takes place in the lungs.
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Q6. Write three ways to keep heart healthy and strong.
Ans:- The three ways to keep heart healthy and strong are:

1. Doing some physical exercises such as swimming and walking.
2. Taking proper rest and sleep.
3. Performing simple asanas.

Q Give reasons:-

1. Heart is a living pump.

Ans. Heart is a living pump because it pumps oxygen and nutrient-rich blood throughout our body to sustain life.

2. The blood flow stops after sometime, when we get injured:

Ans. Platelets in the blood help in clotting of blood whenever there is an injury and thus prevents loss of blood from the body. So, the blood flow stops after sometime, when we get injured.

E Match the columns.

- 1-(d)
- 2-(e)
- 3-(a)
- 4-(c)
- 5-(b)

F:- Draw and label circulatory system of human being.

→ HW.

H Read the clues (and learn as one-word answers).

1. Blood cells which help in clotting :- Platelets
2. Four-chambered organ located in the chest cavity :- Heart
3. Red coloured fluid inside blood vessels :- Blood
4. Blood vessels which carry blood from the heart :- Arteries
5. Blood vessel which brings blood to the heart :- Veins

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