



Veda International School  
Kusugal Road, Hubballi



( Proposed ICSE Board) UDISE Code: 29090203210

**Grade; 5**

**Subject;Science**

**Topic: Circulatory system**

---

### Exercise

#### **A. Short answer questions:**

1. The two main veins are:

- (i) **Superior vena cava:** It brings blood from upper part of body to the heart.
- (ii) **Inferior vena cava:** It brings blood from lower part of body to the heart.

2. **Function of Blood:**

- (i) It helps to transport oxygen and carbon dioxide in the body.
- (ii) It carries digested food from small intestine to all parts of body.
- (iii) It carries waste products to kidney for removing them from body.
- (iv) WBCs in blood helps to kill germs and protect us from diseases.

3. **Function of RBCs:** RBCs transport oxygen from lungs to all the cells of the body.

**Function of WBCs:** WBCs fight against the germs that enter our body and thus, protect us from diseases.

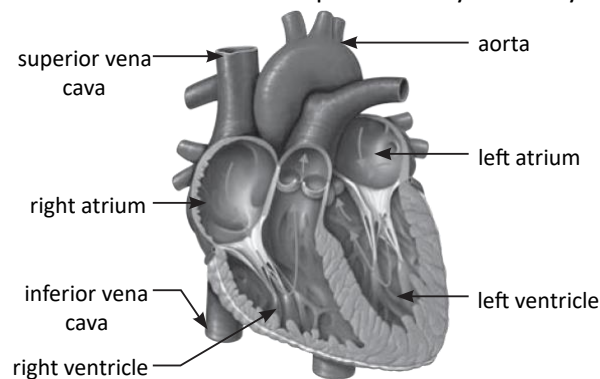
**Function of platelets:** It helps in blood clotting during cuts and wounds.

4. We need a circulatory system—

- (i) To transport food and oxygen to all parts of the body
- (ii) To carry carbon dioxide to lungs and urea to kidney

5. It is important to practice yoga because it helps to keep our heart healthy and improves the blood circulation. **B. Long answer questions:**

1. The heart is a muscular organ having four chambers. The upper two chambers of the heart are called atria or auricles. The lower two chambers of the heart are called ventricles. Heart is protected by the bony structure called ribcage. The size of our heart is roughly equal to our fist.



Structure of human heart

2. Differences between arteries and veins are—

S.No.	Arteries	Veins
(i)	They carry blood from the heart to different body parts.	They carry blood from different body parts to the heart.
(ii)	They carry oxygen-rich blood.	They carry carbon dioxide-rich blood.
(iii)	They have thick walls.	They have thin walls.
(iv)	They are deeply seated.	They are not deeply seated.

3. Blood in our heart is circulated as:

- (i) The heart receives (carbon dioxide rich) blood from all the organs of the body except lungs.
- (ii) It pumps the carbon dioxide-rich blood to the lungs.
- (iii) From the lungs, the blood vessels carry oxygen-rich blood to the heart.
- (iv) The heart pumps oxygen-rich blood to the other parts of the body.

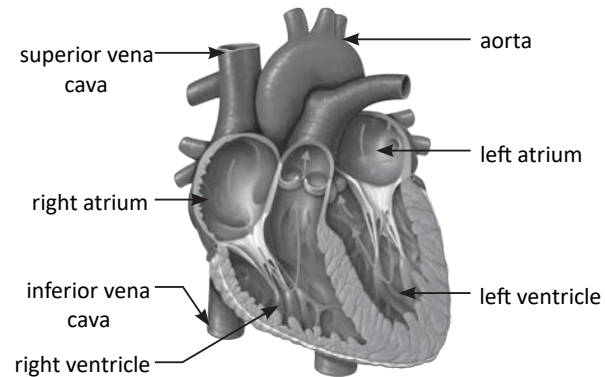
4. We can keep our heart healthy by:

- (i) Eat healthy food items like fruits, vegetables, grains and nuts.
- (ii) Do not eat too oily and junk food.
- (iii) Drink at least 8-10 glasses of water every day.

- (iv) Do regular exercise and yoga.
- (v) Take proper rest. Sleep for at least seven to eight hours.

**Application/Skill-based Questions C.**

**Draw a labelled diagram of the human heart.**



Structure of human heart

**D. Look at the given picture and answer the following questions:**

1. Circulatory system
2. (a) Heart (b) Artery (c) Vein
3. Heart pumps the blood.

Arteries carry oxygenated blood.

Veins carry deoxygenated blood. E.

**Think and Answer:**

1. WBCs
2. When the heart stops working no blood will be transported, thus, no oxygen will supply to body parts which will lead to death of a person.

