8. CIRCULATORY SYSTEM AND EXCRETORY SYSTEM

1. Which organs constitute the circulatory system?

Ans The heart, blood and blood vessels constitute the circulatory system.

2. What are the materials carried by the blood?

Ans Blood carries oxygen to all parts of the body and collects carbon dioxide and other wastes from them. It also carries nutrients and other substances.

3. What is a heartbeat?

Ans The contraction and relaxation of the heart muscle produces a sound or beat is called a heartbeat.

4. What is a pulse?

Ans The pumping of blood by the heart causes a rhythmic wavy movement of blood in our blood vessels is called a pulse.

5. What is the main function of the excretory system?

Ans The main function of the excretory system is to get rid of all harmful waste materials produced inside the body.

6. Differentiate between arteries and veins. What is the importance of capillaries?

Ans Arteries carry blood from the heart to the rest of the body.

Veins carry blood from different parts of the body to the heart.

Both arteries and veins branch off to form very fine tubes called capillaries. Capillaries are the

smallest of blood vessels. All exchange of gases, nutrients or wastes take place through the capillaries.

7. Describe how blood flows throughout our body.

Ans 1.Veins bring blood to the heart from all parts of the body. This blood contains carbon dioxide, a waste gas.

2.The heart then pumps this blood into lungs.

3.In the lungs, the carbon dioxide is removed.

The blood then collects oxygen. This oxygen-rich blood then comes back to the heart.

4.The heart pumps this blood to all parts of the body.

5.While moving through the blood vessels in the digestive system, the blood picks up nutrients and transports them to all parts of the body. The blood also collects wastes from the liver and other parts in a similar way and helps in removing them from the body.

8. Explain how body waste is removed through the urinary system.

Ans 1.The blood collects waste materials from different parts of the body. This impure blood goes to the kidneys.

2.The kidneys filter the blood and remove waste from it. The kidneys also remove extra salts and water from the blood. The filtered blood returns to the circulatory system.

3.The waste, along with the excess water and salts turns into urine.

4.Each kidney sends the urine to the urinary bladder through a tube called ureter.

5.When the bladder is full, it passes the urine out of the body through a tube called urethra.