



7. Does transpiration serve any useful function in plants? Explain.

Answer: (i) It helps to enhance the absorption of water and dissolved minerals by creation of a suction pull.

(ii) It helps in getting rid of the excess water.

(iii) It helps in transport of water and minerals to leaves and leaves use the water for photosynthesis.

(iv) It produces a cooling effect on the plant

8. What are the components of blood?

Answer: There are four components of blood:

(i) Plasma is a liquid part of blood which is yellowish in colour and contain 90% water. It contains food, enzymes, wastes and proteins etc

(ii) Red blood cells are disc shaped cells containing red coloured pigment called haemoglobin in it. Haemoglobin helps in transportation of oxygen.

(iii) White blood cells are the fighting cells which protect us against bacteria and foreign materials causing infections.

(iv) Platelets help in clotting of the blood

9. Why is blood needed by all the parts of a body?

Answer: Blood is needed by all the parts because it contains the digested food and oxygen in it. It supplies the oxygen and digested food to various parts of the body to provide essential energy to them which helps the body to perform various functions

10. What makes the blood look red?

Answer: A red pigment called haemoglobin gives the blood its red colour. This pigment helps in carrying oxygen to various parts of the body by blood

11. Describe the function of the heart.

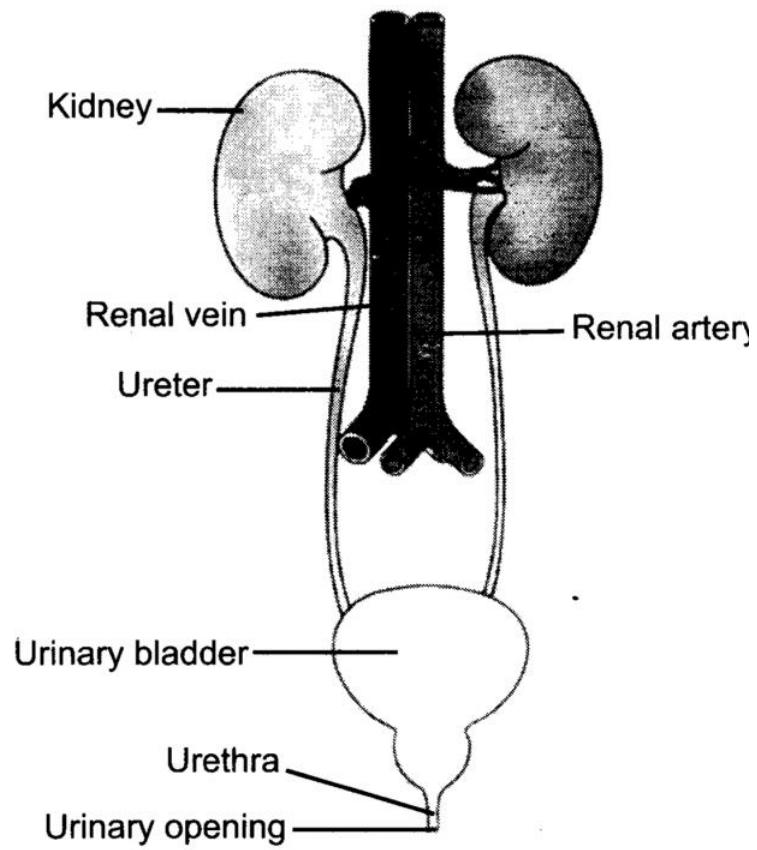
Answer: The right auricle and ventricle receive blood with carbon dioxide from all parts of the body. The collected blood is then pumped to the lungs for the purification. In lungs, the exchange of gases takes place and purified blood is sent back to left auricle. It pumps it to the left ventricle, which in turn pumps off the purified blood to all parts of body through arteries

12. Why is it necessary to excrete waste products?

Answer: Certain waste and toxic products are formed during functioning of body cells. The waste products like urea etc. are toxic. When these toxic materials are not removed from the body, they get mixed with blood and can damage the cells of body. It is necessary to remove such poisonous waste materials from our body.

13. Draw a diagram of the human excretory system and label the various parts.

Answer:



**Fig. 11.7** Human excretory system.

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