

Class - 7th

①

Subject - Science

Chapter - 11th

Transportation in Animals and plants

Book activity

1) Match structure give in column I with function give in column II.

Answer →

Column I	Column II
1) Stomata	Transpiration
2) xylem	Transport of water
3) Root hair	Absorption of water
4) phloem	Transport of food.

2) Fill in the blanks.

(i) The blood from the heart is transported to all part of the body by the arteries.

2) Haemoglobin is present in red blood cells.

3) Arteries and veins are joined by a network of capillaries.

- iv) The rhythmic expansion and contraction of the heart is called heartbeat
- v) The main excretory product in human being is urea.
- vi) sweat contains water and salts
- vii) kidneys eliminate the waste material in the liquid form called urine
- viii) water reaches great heights in the trees because of suction pull caused by transpiration.

Q.3) choose the correct option: -

a) In plants, water is transported through.

Ans → (xylem)

b) water absorption through roots can be increased by keeping the plants.

Ans → (under the fan)

(NOTE-BOOK)

(3)

4) why is transport of material necessary in a plant or in an animal? Explain.

Ans → Transport of material is necessary for plant or animal because due to it the nutrients and oxygen are made available to all the part of the body. If the necessary nutrient and oxygen does not take place in the body, the body will not able to survive.

5) what will happen if there are no platelets in the blood.

Ans → If there are no platelets, then blood will not clot as platelets release blood clotting factor at the site of injury.

6) what are stomata? Give two functions of stomata.

Ans → Tiny pores present on the leaf surface are known as stomata.

Two function of stomata :-

- a) Helps in exchange of gases.
- b) Evaporation of water through leaves occurs due to stomata.

(4)

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

Ans → Transpiration serves following function in plant.

- a) It helps in lowering temperature in plant, Thus preventing heat injury of plant.
- b) Helps in transpiration pull, which helps in raising water in high plant.

8) What are the components of blood?

Ans →

- a) Red blood cells (RBC)
- b) White blood cells (WBC)
- c) Platelets
- d) Plasma

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

Ans → 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 help the body to perform various functions.

10) what makes the blood look red.

Ans → A red pigment called haemoglobin gives the blood its red colour. This pigment help in carrying oxygen to various part of the body by blood.

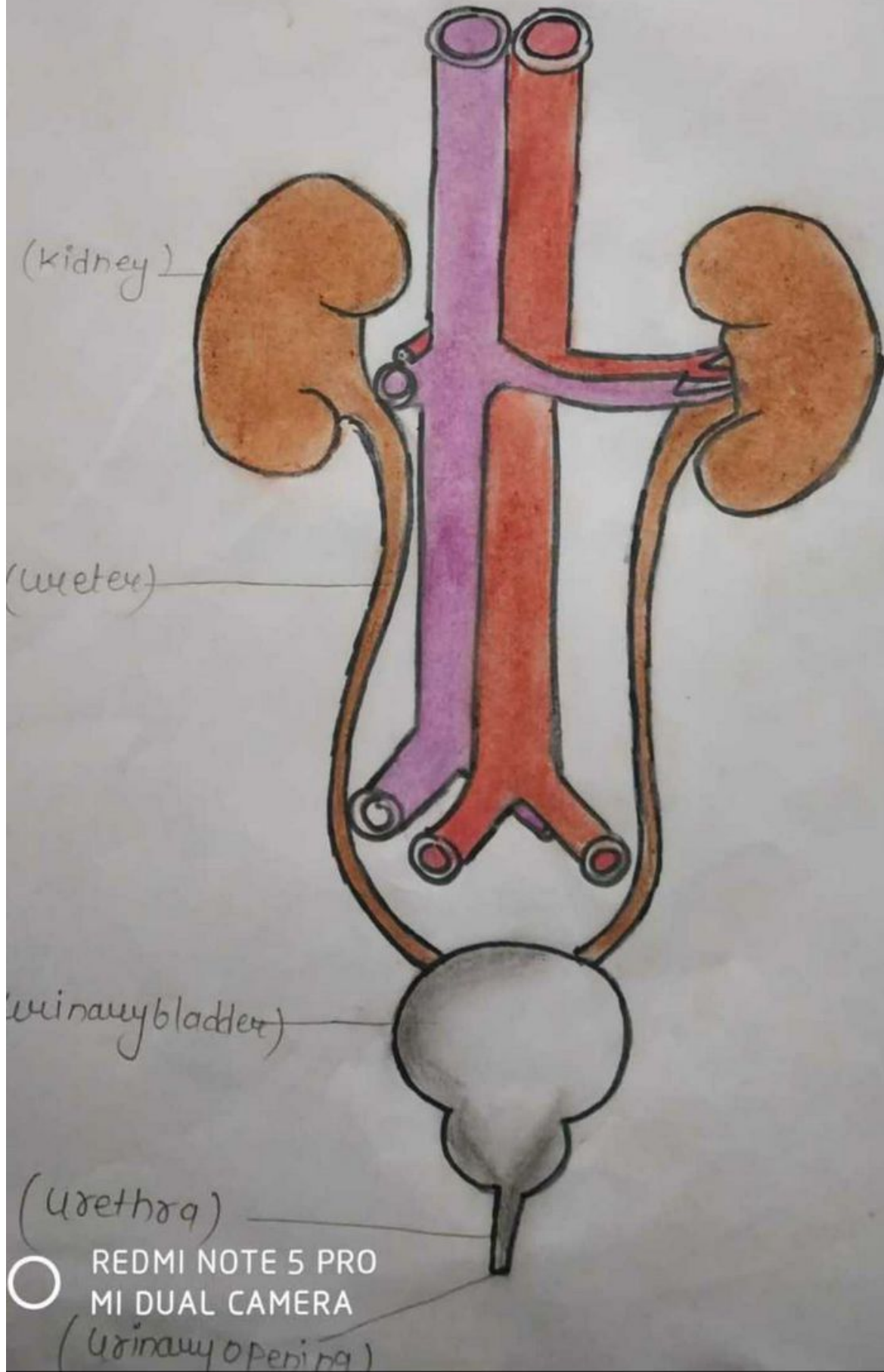
11) Describe the function of the heart.

Ans → The heart is an organ which beats continuously to act as a pump for the transport of blood, which carries other substances with it. The heart has four chambers are called atria (singular: atrium), and two lower chamber are called the ventricles. The partition between the chamber helps to avoid mixing up of blood rich in oxygen with the blood rich CO_2 . Blood flows from the heart to the lungs and back to the heart from where it is pumped to the rest of the body.

12) why is it necessary to excrete waste products.

Ans → when our cells perform their functions, certain waste product are released. These toxic and hence need to be removed from the body.

13) Draw a diagram of the human excretory system and label the various part



(Extra - 94.) NOTE-BOOK

① How many type of blood vessel present in body.

Ans → There are 3 types of blood vessels present in human body.

- 1) Arteries
- 2) veins
- 3) capillaries

2) State difference between arteries and veins.

Ans. → (Arteries)	(veins)
1) Arteries are brownish red in colour.	1) veins are bluish green in colour.
2) The wall of arteries is thick.	2) veins present The wall of veins is thin.
3) Arteries carry pure blood.	3) veins carry impure blood
4) Arteries carry blood away from the heart.	4) veins carry blood towards the heart.

3) what are capillaries.

Ans → The Arteries and veins on reaching the tissues they divide further in extremely thin tube called capillaries.

4) How does transpiration takes place in plants.

Ans → The transpiration in plant take place through xylem and phloem.

a) xylem conduct water and mineral in plant.

b) phloem conduct food ~~mineral~~ materials in plant.

5) what is excretion.

Ans → The process of removal of water product from the body of an organism is called excretion.