

NCERT Solutions

Class-VII (CHAPTER-11) TRANSPORTATION IN ANIMALS AND PLANTS

Questions

- Match the structures given in Column I with functions given in Column II.

	Column I	Column II
(i)	Stomata	(a) Absorption of water
(ii)	Xylem	(b) Transportation
(iii)	Root hairs	(c) Transport of food
(iv)	Phloem	(d) Transport of water
		(e) Synthesis of carbohydrates.
- Fill in the blanks.
 - The blood from the heart is transported to all parts of the body by the-----.
 - Hemoglobin is present in ----- cell.
 - Arteries and Veins are joined by a network of -----.
 - The rhythmic expansion and contraction of the heart is called -----.
 - The main excretory product in human beings is -----.
 - Sweat contains water and -----.
 - Kidney eliminates the waste materials in the liquid form called -----.
 - Water reaches great heights in the trees because of suction pull caused by -----.
- Choose the correct options:
 - In plants, water is transported through
 - Xylem
 - Phloem
 - Stomata
 - Root hair
 - Water absorption through roots can be increased by keeping the plants
 - in the shade
 - in dim light.
 - under the fan
 - covered with a polythene bag.
- Why is transport of materials necessary in a plant or in an animal? Explain.
- What will happen if there are not platelets in the blood?
- What are stomata? Give two functions of stomata.
- Does transpiration serve any useful function in the plants? Explain.
- What are the components of blood?
- Why blood needed by all the parts of a body?
- What makes the blood look red?
- Describe the functions of the heart.
- Why is it necessary to excrete waste products?
- Draw a diagram of the human excretory system and label the various parts.

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Answers

1. (i) (b)
 (ii) (d)
 (iii) (a)
 (iv) (c)
 2. Fill in the blanks.
 - (i) The blood from the heart is transported to all parts of the body by the **arteries**.
 - (ii) Hemoglobin is present in **red blood** cell.
 - (iii) 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 beings is **urea**.
 - (vi) Sweat contains water and **salts**.
 - (vii) Kidney eliminates the waste materials in the liquid form called **urine**.
 - (viii) Water reaches great heights in the trees because of suction pull caused by **transpiration**.
 3. (a) (i) Xylem
 (b) (ii) in dim light.
 4. Different parts of the body perform different works. For example, in plants roots absorb water and leaves prepare food utilizing the water. The food is also required by root. So, there is no utility of water absorb by roots if it does not reach leaf or food prepared by leaf if it does not reach to root. So, transport system is necessary.
 5. Blood cannot clot without the platelets. So, if there is any cut, blood continue to flow and ultimately the person dies.
 6. Small pores in leaves of plants are called stomata.
 Functions of stomata-
 - (i) Exchange of carbon dioxide and oxygen.
 - (ii) Transpiration to remove excess of water.
 7. Due to transpiration, a suction pressure develops which help in transpiration of water.
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8. Red blood cells, white blood cells, platelets and plasma.
9. Blood carries digested food and oxygen to all parts of body. It also carries away the waste products.
10. The presence of hemoglobin.
11. Heart collects and distributes blood from and to all parts of body. Rhythmic contraction and relaxation creates pressure to send blood to all parts of the body.
12. The waste products produced in various metabolic process in our body are harmful for the body.
- 13.

