



# NCERT Solutions for 7th Class Science: Chapter 11-Transportation in Animals and Plants



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Class 7: Science Chapter 11 solutions. Complete Class 7 Science Chapter 11 Notes.

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## Exercises

1. Match structures given in Column I with functions given in Column II.

Column I	Column II
(i) Stomata	(a) Absorption of water
(ii) Xylem	(b) Transpiration
(iii) Root hairs	(c) Transport of food
(iv) Phloem	(d) Transport of water
-	(e) Synthesis of carbohydrates

### Answer

Column I	Column II
(i) Stomata	(b) Transpiration
(ii) Xylem	(d) Transport of water
(iii) Root hairs	(a) Absorption of water
(iv) Phloem	(c) Transport of food

2. Fill in the blanks.

(i) The blood from the heart is transported to all parts of the body by the \_\_\_\_\_.

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- (ii) Haemoglobin is present in \_\_\_\_\_ cells.
- (iii) Arteries and veins are joined by a network of \_\_\_\_\_.
- (iv) The rhythmic expansion and contraction of the heart is called \_\_\_\_\_.
- (v) The main excretory product in human beings is \_\_\_\_\_.
- (vi) Sweat contains water and \_\_\_\_\_.
- (vii) Kidneys eliminate the waste materials in the liquid form called \_\_\_\_\_.
- (viii) Water reaches great heights in the trees because of suction pull caused by \_\_\_\_\_.

### Answer

- (i) The blood from the heart is transported to all parts of the body by the arteries.
- (ii) Haemoglobin is present in red blood cells.
- (iii) Arteries and veins are joined by a network of capillaries.
- (iv) The rhythmic expansion and contraction of the heart is called heart beat.
- (v) The main excretory product in human beings is urea.
- (vi) Sweat contains water and salts.
- (vii) Kidneys eliminate the waste materials in the liquid form called urine.
- (viii) Water reaches great heights in the trees because of suction pull caused by transpiration.

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### 3. Choose the correct option:

- (a) In plants, water is transported through

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- (i) xylem
- (ii) phloem
- (iii) stomata
- (iv) root hair

► (i) xylem

**(b) Water absorption through roots can be increased by keeping the plants**

- (i) in the shade
- (ii) in dim light
- (iii) under the fan
- (iv) covered with a polythene bag

► (iii) under the fan

**4. Why is transport of materials necessary in a plant or in an animal? Explain.**

**Answer**

- (i) Transport of materials in a plant or in an animal is necessary for carrying out metabolic activities.
- (ii) Transportation of materials help in the supply of nutrients and energy to each every parts of animals and plants need energy which they get from the transported materials.
- (iii) Also, the waste materials produced during metabolic activities are toxic and hence need to be removed from the body by transportation.

**5. What will happen if there are no platelets in the blood?**

**Answer**

Platelets help in the clotting of blood at the time of injury. If there would be no platelets, then there would be no clotting of blood and person may die due to excess flow of blood from the body.

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**6. What are stomata? Give two functions of stomata.**

**Answer**

The tiny holes or openings present under the leaves of the plants is called stomata.

Two functions of stomata:

- (i) It helps in breathing of the plants.
- (ii) It helps in exchange of gases takes place inside the plants cells.

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

**Answer**

(i) The excess water absorbed by the root system of the plants lost in the form of water vapour to their surroundings by the process of transpiration.

(ii) It also in transport of absorbed water to the leaves of plants from the roots for photosynthesis and helping the plants keeping erect.

(iii) It also produces cooling effect for the plants.

**8. What are the components of blood?**

**Answer**

The main components of blood are:

- (i) Plasma
- (ii) Red blood cells (RBC)
- (iii) White blood cells (WBC)
- (iv) Platelets

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

**Answer**

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Blood is needed by all the parts of a body because:

- (i) It carries oxygen to all the parts of the body and also carries carbon dioxide back to the lungs.
- (ii) It carries digested food to various parts of the body for absorption.
- (iii) It contains platelets which help in the clotting of blood.
- (iv) It helps in maintaining constant body temperature.
- (v) It transports hormones and helps in fighting the body with germs and bacteria.

### **10. What makes the blood look red?**

#### **Answer**

The presence of red pigment called haemoglobin in red blood cells (RBC) makes the blood look red.

### **11. Describe the function of the heart.**

#### **Answer**

Functions of the heart:

- (i) It helps in the circulation of oxygen rich blood throughout the body by the pumping.
- (ii) It receives oxygenated blood from the lungs.
- (iii) It also pumps back the blood carrying carbon dioxide to the lungs.
- (iv) It shows rhythmic contraction and relaxation for movement of blood.

### **12. Why is it necessary to excrete waste products?**

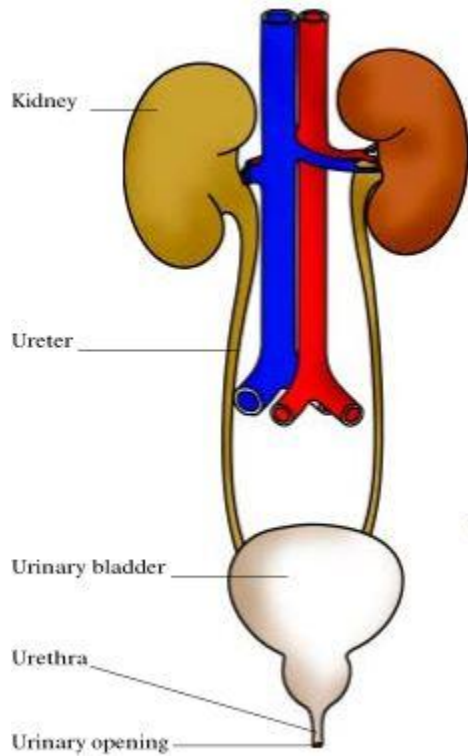
#### **Answer**

The waste materials produced during the metabolic activities are toxic to the body and must not be accumulated inside and therefore it has to be excreted out from the body by the process of excretion.

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

Answer



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