



BIOLOGY

BOOKS - ICSE

TRANSPORT IN PLANTS

Review Questions Mcq

1. Diffusion occurs when molecules move :

A. from lower concentration to higher concentration.

B. from higher concentration to lower concentration through a membrane.

C. from higher concentration to lower concentration.

D. when energy is used.

Answer:



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2. Fill in the blanks :

Ascent of sap takes place through

A. Cortex

B. Epidermis

C. Xylem

D. Phloem

Answer:



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3. If the xylem vessels of a plant are plugged :

- A. The leaves will turn yellow
- B. No food will be made
- C. The plant will wilt (shrivel)
- D. The plant will continue to grow

Answer:



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4. Force responsible for the ascent of sap is

- A. Capillary force
- B. Root pressure
- C. Transpirational pull
- D. All the three

Answer:



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5. Raisins swell when put in

- A. Rain water

B. Saline water

C. Mustard oil

D. Saturated sugar solution

Answer:



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6. Root hairs absorb water when

A. They have a large surface area.

B. They have a semi-permeable membrane.

C. They contain a solution of higher concentration than the surrounding water.

D. All the three

Answer:



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7. Transpiration is defined as

A. the rise of water up to the stem of a plant

B. the elimination of water with dissolved water products.

C. the loss of water as water vapour from the aerial parts of a plant.

D. the loss of water as vapour the roots as well as the leaves the plants.

Answer:



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8. Which one of the following favours the fastest transpiration rate ?

A. A cool, humid, windy day

B. A hot, humid, windy day

C. A hot, humid, still day

D. A hot, dry, windy day

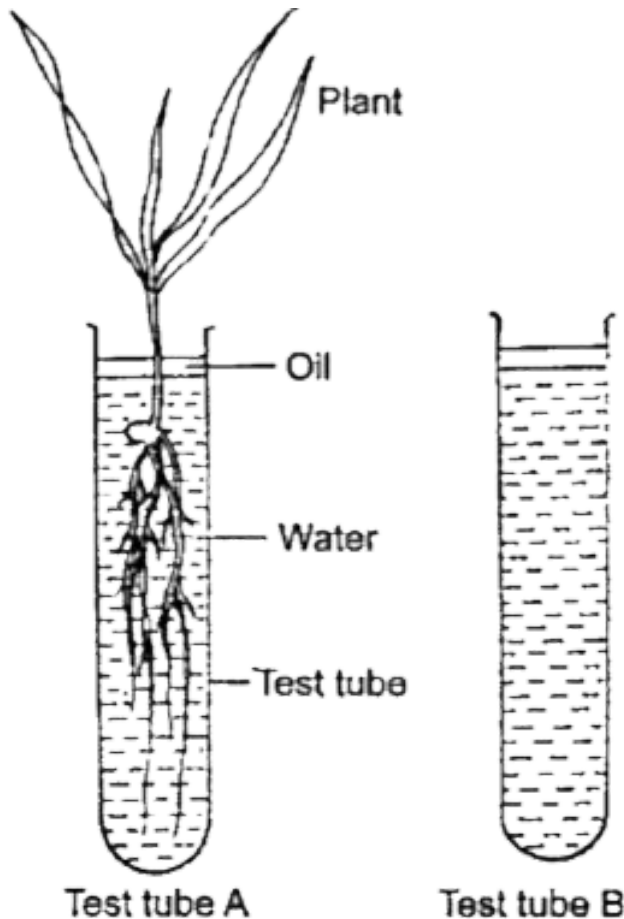
Answer:



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Review Questions Short Answer Questions

1. Study the set-up given alongside and answer the questions given below:



What is the purpose of the setting up test tube B?



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2. How are roots useful to the plants? Give any two points.

(i)

(ii)



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3. What do xylem vessels carry?

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4. Name the tissue that helps in translocation of food material.



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5. Define the terms? (a) semi-permeable membrane (b) osmosis.

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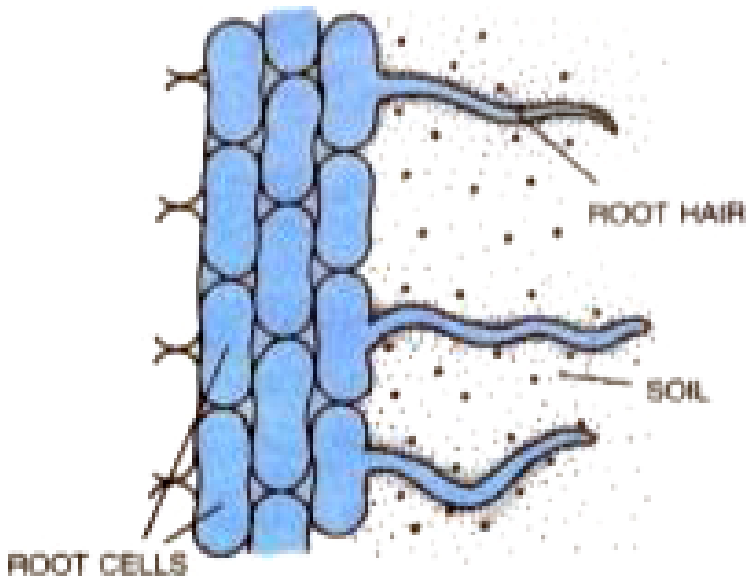
6. Under what conditions do a plant transpire (a) more quickly and (b) most slowly?

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7. Given alongside is an enlarged diagram of a part of the root. Draw arrows on the diagram to show the movement of water passing through different parts.

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8. What is the function of a root hair?



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9. Transpiration and root pressure cause water to rise in plants by



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10. How does temperature, light intensity and wind affect transpiration ?

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11. The set up shown alongside was kept in sunlight for an hour. It was observed that drops of water appeared on the inside surface of the polythene bag

(a) Name the process which is being

demonstrated.

(b) Why was the pot with its soil left uncovered by the polythene bag ?

(c) Why was the pot left in sunlight?

(d) Suppose that the pot in this experimetrn was placed inside a dark room instead of placeing it in sunlight for some time. What difference would be noticed?

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1. Water absorption mainly occurs through the root-hair.



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2. Name the following :

Process by which water enters the root hairs.



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3. Minerals are absorbed by the roots from the soil in the form of



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4. A semi-permeable membrane allows larger molecules to pass through, but prevents the smaller ones.



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5. Transpiration is the loss of water from the roots of the plant.



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6. Transpiration cools the plant when it is hot outside.



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[Review Questions Fill In The Blanks](#)

1. Transportation in plants is carried out by asystem.



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2. The upward movement of sap that contains water and minerals is calledof sap



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3. Rate of transpiration is dependent upon





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4. Water flows from the



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5. Transpiration is reduced if the air is.....



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[Review Questions Long Answer Questions](#)

1. Draw a magnified view of the root hair, and describe how it helps in the absorption of water from the soil ?



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2. Transpiration is the loss of water from the roots of the plant.



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3. Name the following :

The process by which root hairs absorb water from the soil.



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4. How the water absorbed by the roots is important for the plants ?



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5. Name two factors that affect evaporation.



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6. Mention the two ways in which transpiration helps the plants.



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7. Describe an experiment to show that the plant loses water through its leaves.



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8. Name any three minerals whose deficiency causes diseases in plants. Give the symptoms of each deficiency



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9. Differentiate between Xylem and phloem



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