

Udaan 2025

Biology

Life Processes

DHA: 08

Q 1 The movement of products of photosynthesis from the leaves to other tissues of the plant is called _____.

- (A) Tropic movement
- (B) Excretion
- (C) Transpiration
- (D) Translocation

Q 2 During the day when the _____ are open, the _____ becomes the major driving force in the movement of water in the xylem.

- (A) Stomata, translocation pull
- (B) Stomata, root pressure
- (C) Stomata, transpiration pull
- (D) Flowers, translocation

Q 3 The **Xylem** in plants are responsible for:

- (A) Transport of water
- (B) Transport of glucose
- (C) Transport of food
- (D) Transport of oxygen

Q 4 Which of the following statements about transpiration is incorrect?

- (A) Regulates temperature
- (B) Helps in ascent of sap
- (C) Help in movement of food
- (D) Transpiration can occur through stomata and lenticels

Q 5 Transport of food materials in higher plants occurs through:

- (A) Vessels
- (B) Companion cells
- (C) Sieve tubes
- (D) Both (B) and (C)

Q 6 Which of the following forces helps in the ascent of sap?

- (A) Root pressure
- (B) Transpirational pull
- (C) Gravitational force
- (D) Both (A) and (B)

Q 7 Structures present on surface of stem for the exchange of gases are called

- (A) Cuticle
- (B) Lenticels
- (C) Stomata
- (D) Epidermis

Q 8 Why plants have low energy needs?

- (A) Plants don't move
- (B) They have many dead cells
- (C) Because they don't have heart
- (D) Both (A) and (B)

Q 9 Which of the following statements is incorrect?

- (A) Translocation of food via phloem does not require ATP
- (B) Sieve tubes and companion cells are majorly involved in movement of food
- (C) Transpiration plays important role in upward movement of water
- (D) Transport of water via xylem does not require ATP

Q 10 Movement of substances via phloem is

- (A) Unidirectional
- (B) Bidirectional
- (C) Only upwards
- (D) None of these

Important question

Important question

Important question

Answer Key

Q1 D
Q2 C
Q3 A
Q4 C
Q5 D

Q6 D
Q7 B
Q8 D
Q9 A
Q10 B



Hints & Solutions

Q 1 Text Solution:

Translocation

Video Solution:



Q 2 Text Solution:

Stomata are open during day.

Video Solution:



Q 3 Text Solution:

Xylem helps in ascent of sap.

Video Solution:



Q 4 Text Solution:

Ascent of sap occurs via Xylem.

Video Solution:



Q 5 Text Solution:

Phloem tissue

Video Solution:



Q 6 Text Solution:

Transpiration helps in the absorption and upward movement of water and minerals dissolved in it from roots to the leaves. It also helps in temperature regulation. The effect of root pressure in

transport of water is more important at night. During the day when the stomata are open, the transpiration pull becomes the major driving force in the movement of water in the xylem. So two forces are involved.

Video Solution:



Q 7 Text Solution:

Lenticels.

Video Solution:



Q 8 Text Solution:

Plants are stationary and do not have as much living cells like animals.

Video Solution:



Q 9 Text Solution:

Movement of products of photosynthesis requires ATP.

Video Solution:



Q 10 Text Solution:

Bidirectional

Video Solution:



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