

Board – ICSE

Class- 8

Topic – TRANSPORT IN PLANTS

- Q.1. Arrange the following parts in the upward movement of water and minerals in ascent of sap.
(a) Stem and leaves (b) Deeper parts of the root (c) Root hairs (d) Central Xylem
- Q.2. The leaves of a plant first prepare food A by photosynthesis. Food A gets converted into food B. What are A and B?
- Q.3. How are roots useful to plants? Give any two points?
- Q.4. How does transpiration help the roots absorb water and minerals from the soil?
- Q.5. Give one word for the following:
1. The process in which substances absorbed or synthesized in one part of the plant and moved to other parts of the plant is
 2. Non living cell of Phloem
 3. Root absorb water through the process of
 4. Movement of water molecules from a dilute solution to a concentrated solution across a semi-permeable membrane is known as
 5. Plants obtain nutrient elements from the
- Q.6. Classify the following nutrient elements into Macro-nutrients and Micro-nutrients.
(a) Nitrogen (b) Iron (c) Manganese (d) Potassium
- Q.7. Describe the factors affecting rate of transpiration?
- Q.8. Define the terms:
- a) Transpiration
 - b) Osmosis:
 - c) Diffusion:
 - d) Active transport
- Q.9. What do you mean by macro nutrients and micro nutrients
- Q.10. Explain how temperature and wind affect the rate of transpiration?
- Q.11. Write 3 differences between Xylem and Phloem?
- Q.12. Give one word for the following:
- a) Cells that provide mechanical support to the plant are called
 - b) Transpiration is the loss of water in the form of water vapour from the
 - c) Process of attraction of water molecules towards narrow spaces is
 - d) The Phloem tissue in plants is responsible for the transport of
 - f) The xylem in plants is responsible for
- Q.13. Give 2 examples of macro-nutrients, their role in plants and major deficiency symptoms?

Q14 What are the uses of water in Plants?

Q.15 Define transpiration? Why is it important in plants?

Q 16..Draw a magnified view of root hair, and describe how it helps in absorption of water from the soil?