



# SHIKSHA CLASSES

## BOARD QUESTION PAPER

Subject : Biology

Ch.: 6. Plant Water Relation

Total Marks : 25

Class : XII

Time : 1 Hr.

### Section A

**Q.1. : Select & write the most appropriate answer from the given alternatives for each sub-question.** 4

- i) Which special type of tissue is present in epiphytic roots?  
a) Velamen      b) Lenticel      c) Aerenchyma      d) Haustoria
- ii) In double layered cell wall of root hair, outer layer is of .....  
a) cellulose      b) pectin      c) cutin      d) suberin
- iii) A root hair is derived from ..... cell.  
a) epidermal      b) cortical      c) endodermal      d) pericycle
- iv) D.PD. is now known as .....  
a) water potential      b) solute potential  
c) pressure potential      d) osmotic potential

**Q.2. : Write the answer in ONE sentence:** 2

- i) What is the mechanism of imbibition?  
ii) What is radial and tangential translocation?

### Section B

**: Attempt any THREE.** 6

**Q.3. :** Give function of turgor pressure.

**Q.4. :** Draw well labelled diagram of Structure of root hair

**Q.5. :** What are adhesive and cohesive forces?.

**Q.6 :** Enlist macronutrients and micronutrients required for plant growth.

### Section C

**Attempt any THREE.** 9

**Q.7 :** Write shorts notes on Lenticular transpiration.

**Q.8 :** Give reason: Absorption of water by roots from soil is with physical processes inhibition, diffusion and osmosis.

**Q.9 :** Distinguish between the Diffusion and Osmosis.

**Q.10 :** Complete the table.

<b>E v e n t</b>	<b>Physical process</b>
1) Soaking of Seeds	_____
2) Water entering guard cells	_____
3) Exchange of gases	_____
4) Loss of water in liquid form	_____
5) Water coming out through earthen pot	_____
6) Loss of water in vapour form	_____

### **Section D**

**: Answer the following : (ANY 1)**

4

**Q.11 :** Explain the principles of cohesion tension theory and its limitations?

**Q.12 :** Write a note on macronutrients and micronutrients required for plant growth.

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