

CLASS10_TEST

Total points 9.5/10 ?

Email address *

mananmehtabatman@gmail.com

0 of 0 points

Name *

Manan Y Mehta

School *

TBSG

Class *

10

PART 1- OBJECTIVE TYPE

6 of 6 points

MARKS: 6



✓ 1. Absorption of water by the plant cells by surface attraction is called: 1/1

- ☐ Diffusion
- ☒ Imbibition
- ☐ Endosmosis



2. Match the following descriptions with the appropriate term *

	diffusion	plasmolysis	osmosis	turgidity	Score	
Process by which water enters root hairs.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	1/1	✓
The condition of a cell placed in a hypotonic solution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
The process by which molecules distribute themselves evenly within the space they occupy.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1/1	✓



✓ 3. Identify the phenomenon observed in the image given below *

1/1



- ☐ transpiration
- ☐ bleeding
- ☒ guttation

✓

✓ 4. The bending movements of certain flowers towards the sun and the sleep movements of certain plants at night are examples of ____.

1/1

- ☒ turgor movement
- ☐ higher rate of water absorption
- ☐ reduced transpiration

✓

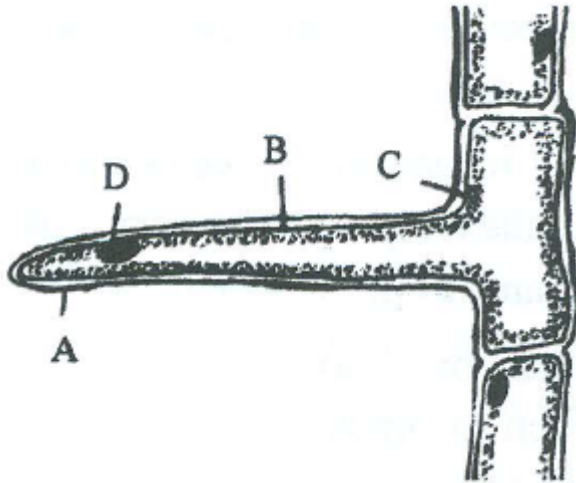
PART 2- SUBJECTIVE TYPE

3.5 of 4 points

MARKS: 4



- ✓ 1. The diagram below represents a layer of epidermal cells showing a fully grown root hair. Study the diagram and answer the questions that follow:
 A) The root hair cell is in a turgid state. Name and explain the process that caused this state. B) Mention one distinct difference between the parts labelled A and B. *



(A) Osmosis - The movement of water molecules from a region of their higher concentration to a region of their lower concentration through a semi-permeable membrane. (B)(C) A is cell wall and B is cell membrane. Cell wall is thin and permeable whereas cell membrane is very thin and semi-permeable.

✗

Individual feedback

A) A root hair gets turgid because of the absorption of water from the surrounding. Absorption of water by root hair is achieved by the process of osmosis. The concentration of water in the surrounding is more than that of the interior of the cell; this causes the water from the surrounding to move in because of endosmosis.

B) A-Cell wall of a root hair is freely permeable and allows both salt and water to pass through.

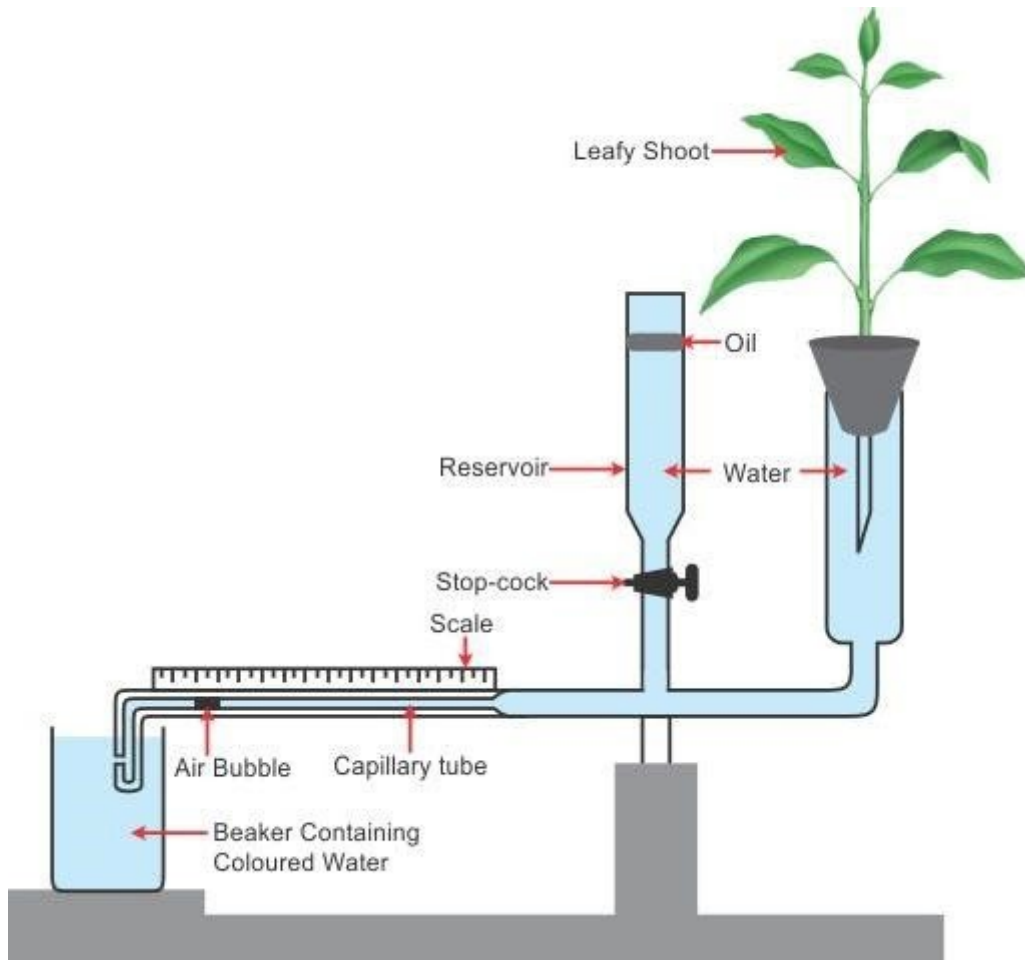
B- The cell membrane of a root hair is semi-permeable and does not allow large dissolved salt molecules to pass through.

ENDOSMOSIS IS THE IDEAL WORD TO BE USED HERE



✗ 2. Identify the given device and mention its use *

0.5/1



The device is Ganong's potometer and it is used in measurement of transpiration.

✗

Feedback

Ganong's potometer is used to measure the water intake of a plant which is almost equal to the water lost through transpiration.

This content is neither created nor endorsed by Google. - [Terms of Service](#) - [Privacy Policy](#)

Google Forms

