

- 1.5 Explain how the main force of the three mentioned in Question 9.4, ensures the upward movement of water in the plant.
- 1.6 Name and define the process represented by the letter Y.
- 1.7 Explain how process Y will be influenced during rainy conditions.

QUESTION 10

Define the term transpiration.

Why is transpiration important in plants?

Name and explain SIX structural adaptations of leaves to limit transpiration.

QUESTION 11

Diagrams shown here represent the leaves of the seedlings of a mesophyte, planted at different times during a warm summer month. One seedling was planted at 12h00 and the other at 20h00. All other factors were the same for seedlings during transplantation.

Study the diagrams and answer the following questions.



Diagram 1
Leaves of seedlings



Diagram 2

Diagram (1 or 2) shows the seedling transplanted at 12h00? Give a reasonable reason for your answer to Question 11.1.1.

Name and answer the questions that follow: What is shown in this representation? Through which water moves? If out.

Conditions in which this process takes place? Name the process in guttation? How does transpiration differ?



QUESTION 12

Study the following table illustrating the rate of water absorption by roots and the transpiration by leaves.

Time	A Rate of water absorption (ml per hour)	B Rate of transpiration (ml per hour)
06h00		
08h00	1.5	
10h00	1.5	0.5
12h00	3.2	2.0
14h00	4.5	4.5
16h00	5.7	6.0
18h00	7.6	7.4
	8.0	9.3
		5.5

- 12.1 Draw two line graphs on the set pair of axes to illustrate the results. Label the graphs A and B.
- 12.2 Name TWO environmental factors that could influence the rate of water loss. By using the information in the table, indicate the time the sun rises. Give a reason for your answer.
- 12.4 When does maximum transpiration take place?

QUESTION 13

Study the diagram below and answer the questions that follow.



- 13.1 What is the purpose of the above experiment?
- 13.2 What is the name of the apparatus illustrated above?
- 13.3 How can the air bubble be moved from B to A?
- 13.4 Name FOUR external forces that would affect this practical examination, and in each case indicate the effect it would have on the results.
- 13.5 Name and discuss FOUR precautionary measures that should be taken to ensure the results of the practical investigation more reliable.

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