## Step Academy Official

Student Name -

	Subject Name ————————————————————————————————————	Time Allowed — 50 MINUTE		Total	Marks — 30	Exam Da	,
		30 1411140 12	.0	4	30		
	CHAP 9						
Q1. Choose the correct	ct answer.						1X6=6
1. The primary function of root hairs is:			(A)		(B)	(C)	(D)
			Transpor	rt of	Storage of	Increase	Synthesis of
			nutrients	i	food	surface area	proteins
						for absorption	
2. Water moves from the soil into root cells by:			(A) Osmosis		(B)	(C) Diffusion	(D) Bulk flow
			*100*3 F250 1		Active		**** S (S)
			-	. (	transport		
3. The transpiration is regulated by;			(A) Mesophyll		(B) Guard cells	(C) Xylem	(D) Phloem
Movement of molecules from an area of higher concentration to an area of lower concentration is called :			(A) Osmosis		***** ***** ** **** ***		• • • • • • • • • • • • • • • • • • • •
					(B)	(C) Respiration	(D) Diffusion
			7		Transpiration		
5. Which one factor is not affecting the rate of transpiration:			(A)		(B) Wind	(C) Water	(D) Humidity
			Tempera	iture			
6. Which category of plants stores a small amount of water and has a			(A)		(B) Xerophytes	(C) Mesophyte	(D) Succulents
thin cuticle?		X	Hydroph	ytes			
Q2. Write short answe	ers of the following questions.	0					2X7=14
Define macronutrients and micronutrients and give examples.			II . Transpiration is the loss of water from plants. is it a harmful				
			phenomenon? If no, what is its importance?				
III . Define the following term: Translocation.			IV . Differentiate between guard cells and epidermal cells.				
V . Differentiate between sink and source.			VI . Define endodermis and pericycle.				
VII . Why plants absorb	carbon dioxide and release oxy	ygen during					
daytime?							
00 White detailed and							EV0-40
	wers of the following questions.		1 <u>0</u> 1 100 1000 1	E 1		で な (x 14)	5X2=10
<ol> <li>Describe temperature, wind and humidity as the factors affecting the rate of transpiration.</li> </ol>			<ol><li>Explain the mechanism of food translocation by Pressure Flow Mechanism.</li></ol>				

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