## Science Sixth Primary Second Term

Unit FOUR



I - Write the definition of each of the following :	(4 marks)
1 - Selective permeability :	
2 – Transpiration process :	
3 – Osmosis feature :	
4 – Stomata :	
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2 - Complete the following statements :	(13 marks)
1 - Water and mineral salts are absorbed throughin the	of the root
2 - Thein plant is surrounded by two guard cells	
3 - The membrane of the root hairs haswhich allows some salts	s to pass through
4 - Theprocess in the plant creates pressure that raise	s water upwards
5 - Root hairs have a bigthat contains	ii.
6 - In plant root, the cortex layer is followed bylayer, then	layer
7 - The root hair is lined fromwith a thin layer of	
8 -The root is extended and divided through the soiltothe	plant in the soil
9 - The root hairs secreteto help the root to penetrate	the soil particles
10 - The transmission of water from the soil to the vacuole of the root ha	irs occurs by
11 -Xylem tissue rises water toandasas.	and
12 - The high concentration of salt solution means that it contains of water, so the solution hasof water	
13 - Mineral salts are transmitted from the soil to the root hairs by	

3 - Give reason for each of the following :	(8 marks)
1 - Green plants need some raw materials in the presence of light ?.	
2 - The plant root is extended through the soil particles ?	
3 – The age of root hairs doesn't exceed few days ?	
4 – Root hairs secrete a sticky substance ?	
5 – Root hairs have selective permeability ?	
6 - Root hairs can absorb water from the soil ?	
7 – Presence of holes (stomata) on the lower surface of the plant lea	aves ?
8 – The concentration of the salt solution inside the root hair vacuo concentration of soil solution?	
4 - What happens when :	(7 marks)
ı – The two guard cell of the stoma can't change their shape ?	
2 – There is no osmosis feature in the plant ?	
3 – The plant carries out transpiration process in a bell jar ?	
4 – The root hairs don't secrete sticky substances ?	
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5 - The wood tissue disappears from a plant ?	
5 – What is the function of:	(5 marks)
1 – Root hairs :	
2 – Endodermis layer :	
3 – Two guard cells surrounding the stoma :	
4 – Xylem (wood tissue) :	
5 – Transpiration process :	
6 - Put (√) or (x) then correct the false statement :	(5 marks)
1 – The root hairs have thick walls	()
2 – Epidermis layer regulates the passing of water to the xylem	()
3 – Stomata are widely spread on the upper surface of the plant leaves	()

4 - Stomata are surrounded by two	woody cells ()
5 - Calcium, potassium and zinc are	necessary for the plant's life
7 - Choose the correct ans	swer: (5 marks)
1 – Plant absorbs water by	
A. flowers	C. stem
B. root hairs	D. leaves
2 - Water rises from root to stem th	roughlayer
A. epidermis	C. cortex
B. endodermis	D. wood
3 - The energy needed for absorption	on of mineral salts comes from theprocess
A. transpiration	C. osmosis
B. photosynthesis	D. respiration
4 - Transpiration is a bio-process, w	here the plant iswater
A. absorbing	C. losing
B. gaining	D. (A),(B) and (C)
5 - The root hairs form	membrane that facilitating the absorption process
A. sticky	C. thin
B. watery	D. (A) and (C) are correct answers

THANK YOU