ICSE BIOLOGY 8

Chapter 1: Transport of Food and Minerals in Plants

Worksheet 1

1. F1I	I in the blanks.					
(i)	Absorption of minerals by root hair takes place by					
(ii)	pull helps in drawing water from root to leaves of tall trees					
(iii)	Transport of material in unicellular plants takes place by					
(iv)	Plants lose excess of water by the process of					
(v)	Delayed flowering in plants is due to deficiency of					
2. De	fine these elements.					
(i)	Essential elements					
(ii)	Root pressure					
(iii)	Ascent of sap					
(iv)	Osmosis					
(v)	Phloem					
3. Ma	atch the following.					
	Column A		Column B			
(i)	Nitrogen	(a)	Tubular cells			
(ii)	Algae	(b)	Proteins and nucleic acids			
(iii)	Xylem vessels	(c)	Semipermeable membrane			
(iv)	Root hair	(d)	Cell-to-cell diffusion			
(v)	Egg membrane	(e)	Epidermal cell			

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Worksheet 2

ck the correct answer	1.					
(i) They contain sieve plates at their ends.						
(a) xylem vessels	(b) phloem vessels	(c) companion cells	(d) xylem parenchyma			
Root hair are extenti	ons of					
(a) epidermal cells	(b) cortical cells	(c) endodermal cells	(d) xylem vessels			
Diffusion is moveme	ent of molecules from					
(a) aerial parts of plant to roots						
(b) lower concentration to higher concentration						
(c) higher concentration to lower concentration						
(d) roots to aerial parts of plant						
(iv) This process takes place by consuming energy.						
(a) active transport		(b) passive transport				
(c) osmosis		(d) diffusion				
Premature leaf fall o	ccurs due to deficien	cy of				
(a) nitrogen	(b) boron	(c) zinc	(d) phosphorus			
nswer the following	questions.					
Why do cut flowers kept in water remain fresh?						
Why does transpiration produce cooling effect?						
What is the difference between diffusion and osmosis?						
Why are phloem vessels also called sieve tubes?						
Which other membranes can be used as semipermeable membrane?						
raw the following.						
Detailed structure of a root hair						
LS phloem showing structure of sieve tubes						
	They contain sieve p (a) xylem vessels Root hair are extentif (a) epidermal cells Diffusion is movemed (a) aerial parts of pl (b) lower concentration (c) higher concentration (d) roots to aerial parts This process takes price (a) active transport (c) osmosis Premature leaf fall of (a) nitrogen Inswer the following of Why do cut flowers Why does transpirate Why does transpirate Why are phloem vest Which other membrican the following. Detailed structure of	They contain sieve plates at their ends. (a) xylem vessels (b) phloem vessels Root hair are extentions of (a) epidermal cells (b) cortical cells Diffusion is movement of molecules from (a) aerial parts of plant to roots (b) lower concentration to higher concent (c) higher concentration to lower concent (d) roots to aerial parts of plant This process takes place by consuming en (a) active transport (c) osmosis Premature leaf fall occurs due to deficienc (a) nitrogen (b) boron (b) boron (c) make the following questions. Why does transpiration produce cooling of the whole of the difference between diffusion at the difference between diffusion at the difference between diffusion at the following. Detailed structure of a root hair	(a) xylem vessels (b) phloem vessels (c) companion cells Root hair are extentions of (a) epidermal cells (b) cortical cells (c) endodermal cells Diffusion is movement of molecules from (a) aerial parts of plant to roots (b) lower concentration to higher concentration (c) higher concentration to lower concentration (d) roots to aerial parts of plant This process takes place by consuming energy. (a) active transport (b) passive transport (c) osmosis (d) diffusion Premature leaf fall occurs due to deficiency of (a) nitrogen (b) boron (c) zinc nswer the following questions. Why do cut flowers kept in water remain fresh? Why does transpiration produce cooling effect? What is the difference between diffusion and osmosis? Why are phloem vessels also called sieve tubes? Which other membranes can be used as semipermeable membranes taw the following.			