

Subject : BIOLOGY DPP No. : 1 Class: XIth Date:

	Topic :- Transport in Plants								
1.	Choose correct statements regarding the flow of sap in xylem? The Flow is driven by higher concentration of sugar in the vessel elements I. Flow from root to twigs and leaves would be reduced if leaves are removed II. In the morning, sap begins to flow first in the twig then in trunk V. Rapid flow of water put tissues under pressure much more than atmospheric pressure a) I and IV b) II and III c) I, II, III and IV d) No one is correct								
2.	Stomatal opening is reg a) Light c) Atmospheric humidi		b) Temperature d) Wind						
3.	The direction of movement in phloem isA and the Choose the correct pair of options a) A-downwards; B-downwards c) A-unidirectional; B-bidirectional		at of xylem isB b) A-only upwards; B-only downward d) A-bidirectional; B-unidirectional						
4.	Which of the following theories for ascent of sap Bose? a) Pulsation theory c) Transpiration pull theory		was proposed by an eminent Indian scientist J C b) Relay pump theory d) Root pressure theory						
5.	The potential energy of a) Water potential	f water is referred as b) Osmotic potential	c) Gravity potential	d) Pressure potential					
5 .	If two solutions have that a) Hypertonic	ne same osmoregularity, b) Hypotonic	they are said to be c) Isotonic	d) None of these					
7.	Plant obtain carbon and most of their oxygen from a) Soil c) CO ₂ from the atmosphere		b) Water d) Symbiotic organization						

8.	When plant cell is kept in a) Decrease in size	saline drip, cell b) Bursts out	c) Increase in size	d) Unchanged			
9.	Carrier protein, which allows the diffusion of two type of molecules in the same direction is						
<i>,</i>	a) Symport	b) Antiport	c) Both (a) and (b)	d) Uniport			
10.	Hydroponics is the method of						
	a) Water conservation		b) Plant development in	n water without soil			
	c) Plant development without soil		d) Plant development in saline soil				
11.	Imbibition is always accompanied by swelling or increase in the volume of imbibint However, the increase in the volume of the imbibant is a) More than the volume of water imbibed b) Same as the volume of the water imbibed c) Less than the volume of the water imbibed d) Depends upon the type of imbibant						
12.	Which of the following is responsible for the transport of water and minerals from roots to stems, leave flowers and fruits in rooted plants?						
	a) Xylem	b) Phloem	c) Either (a) or (b)	d) Both (a) and (b)			
13.	Loss of liquid water by	guttation occurs through	l				
	a) Hydathodes	b) Stomata	c) Cuticle	d) Bark			
14.	The process by which water is absorbed by solids like colloid causing them to increase in volume, is called a) Osmosis b) Plasmolysis c) Imbibition d) Diffusion						
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15.	Choose the correct combination of labeling of the potato osmoscope experiement. D B A C E P P P P P P P P P P P P						
	a) A-Final level	B-Dotpin					
	C-Initial level E-Potato tuber	D-Sugar solution					
	b) A-Initial level	B-Dotpin					
	C-Final level	D-Dotpili D-Water					

	c) A-Final level C-Initial level	B-Dotpin				
	E-Potato tuber	D-Water				
	d) A-Final level	B-Dotpin				
	C-Initial level	D-Water				
	E-Container					
16.	phloem? sap moves ups and down					
	c) Transpiration does not move xylem sap, but it moves phloem sapsd) Transport of substances take place from source to sink by both the tissues					
17.	Which one of the following is not an antitranspirant?					
	a) PMA	b) BAP	c) Silicon oil	d) Low viscosity		
18.	Statoliths are involved in					
	a) Phototropism	b) Hydrotropism	c) Chemotropism	d) Gravitropism		
19.	 In plasmolysed cell, the space between nucleus a a) Hypotonic solution c) Isotonic solution 		and plasma membrane is occupied by b) Hypertonic solution d) Air			
20.	The sugarcane plant hasa) Dumb bell-shaped guard cellsc) Reticulate venation		b) Pentamerous flowers d) Capsular fruits			

E-Potato tuber