



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

Topic :- Transport in Plants			
1.	Choose correct statements regarding the flow of sap in XI. Flow is driven by higher concentration of sugar in the II. Flow from root to twigs and leaves would be reduced III. In the morning, sap begins to flow first in the twig th IV. Rapid flow of water put tissues under pressure much a) I and IV b) II and III	vessel elements if leaves are removed en in trunk	ssure d) No one is correct
2.	Stomatal opening is regulated by a) Light c) Atmospheric humidity	b) Temperature d) Wind	
3.	The direction of movement in phloem isA and that of Choose the correct pair of options a) A-downwards; B-downwards c) A-unidirectional; B-bidirectional	f xylem isB b) A-only upwards; B-only downward d) A-bidirectional; B-unidirectional	
4.	Which of the following theories for ascent of sap wa a) Pulsation theory c) Transpiration pull theory	as proposed by an eminent b) Relay pump theory d) Root pressure theory	t Indian scientist J C Bose?
5.	The potential energy of water is referred as a) Water potential b) Osmotic potential	c) Gravity potential	d) Pressure potential
6.	If two solutions have the same osmoregularity, they a) Hypertonic b) Hypotonic	y 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) Waterd) Symbiotic organization	
8.	When plant cell is kept in saline drip, cell a) Decrease in size b) Bursts out	c) Increase in size	d) Unchanged
9.	Carrier protein, which allows the diffusion of two type of a) Symport b) Antiport	of molecules in the same direction of molecules in the same direction. Both (a) and (b)	ction is d) Uniport
10.	Hydroponics is the method of a) Water conservation	b) Plant development in	water without soil



c) Plant development without soil

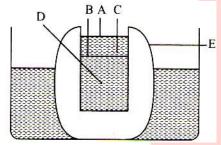
- d) Plant development in saline soil
- 11. Imbibition is always accompanied by swelling or increase in the volume of imbibint However, the increase in the volume of the imbibant is
 - a) More than the volume of water imbibed
 - b) Same as the volume of the water imbibed
 - c) Less than the volume of 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, leaves, 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
 - 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
- 15. Choose the correct combination of labeling of the potato osmoscope experiement.



- a) A-Final level
 - C-Initial level
 - E-Potato tuber
- b) A-Initial level
 - C-Final level
 - E-Potato tuber
- c) A-Final level
 - C-Initial level
 - E-Potato tuber
- d) A-Final level
 - C-Initial level E-Container

- **B-Dotpin**
- **D-Sugar solution**
- **B-Dotpin**
- **D-Water**
- **B-Dotpin**
- **D-Water**
- B-Dotpin
- D-Water
- 16. How will you distinguish between the method of transport between xylem and phloem?
 - a) Active transport move xylem but not phloem sap
 - b) Transport, in xylem is unidirectional and saps move upward, while phloem sap moves ups and down
 - c) Transpiration does not move xylem sap, but it moves phloem saps
 - d) 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



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- 18. Statoliths are involved in
 - a) Phototropism
- b) Hydrotropism
- c) Chemotropism
- d) Gravitropism
- 19. In plasmolysed cell, the space between nucleus and plasma membrane is occupied by
 - a) Hypotonic solution
 - c) Isotonic solution

- b) Hypertonic solution
- d) Air

- 20. The sugarcane plant has
 - a) Dumb bell-shaped guard cells
 - c) Reticulate venation

- b) Pentamerous flowers
- d) Capsular fruits



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