

### **Chapter 6 : Plant Water Relation**

- (1) The special hygroscopic tissue found in the aerial roots of some epiphytic plants is ..... . **(July '22)**  
(a) velamen (b) epiblema  
(c) endodermis (d) xylem
- (2) Phloem sap analysis is done using isotope ..... .  
(a)  $^{16}\text{O}$  (b)  $^{14}\text{C}$   
(c)  $^{15}\text{N}$  (d)  $^{35}\text{S}$
- (3) What is the reason behind various properties of water?  
(a) Physical state (b) Hydrogen bonding  
(c) Colour (d) Fluidity
- (4) Water from pericycle is forced into xylem due to ..... .  
(a) aquaporin (b) plasmodesmata  
(c) root pressure (d) ion-channels
- (5) Which mineral element is not remobilized in plants?  
(a) Phosphorus (b) Potassium  
(c) Sulphur (d) Calcium
- (6) In double layered cell wall of root hair, outer layer is of ..... .  
(a) cellulose (b) pectin (c) cutin (d) suberin

**(7)** What is rhizosphere?

- (a) Root ball formed by growth of roots
- (b) Covering of root tip
- (c) Microenvironment around root
- (d) Region of root hairs

**(8)** A root hair is derived from ..... cell.

- (a) epidermal
- (b) cortical
- (c) endodermal
- (d) pericycle

**Ans. (1)** (b) epiblema      **(2)** (b)  $^{14}\text{C}$       **(3)** (b) Hydrogen bonding  
**(4)** (c) root pressure      **(5)** (d) Calcium      **(6)** (b) pectin  
**(7)** (c) Microenvironment around root      **(8)** (a) epidermal.