



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

## WORK SHEET – 27 (SOLUTIONS)

Class: IX

Sub: LIFE SCIENCE

Date: 14.05.2020

Topic: Transpiration-Part 2

F.M. : 15

Choose the correct option:

(1x15=15)

- The rate of transpiration is influenced by -  
a) External factor b) Internal factor c) Both external and internal factor  
d) None of them  
**Answer : Both external and internal factor (c)**
- External factors of transpiration :-  
a) Humidity of air b) Wind c) Light d) All of these  
**Answer : All of these (d)**
- What is not an internal factor responsible for transpiration:-  
a) Leaf structure b) Temperature c) Enzymes d) Density of root  
**Answer : Temperature (b)**
- The effect of high humidity in the air results :-  
a) Increase in the rate of transpiration b) No effect on Transpiration c) Decrease the rate of Transpiration d) none of these  
**Answer : Decrease the rate of transpiration (c)**
- The low wind velocity affects the transpiration:-  
a) Water vapour accumulates around the leaf b) water vapour enters the leaf  
c) Water vapour brings more wilting d) None of these  
**Answer : Water vapour accumulates around the leaf (a)**
- Transpiration increase with:-  
a) Decrease in atmospheric pressure b) decrease in sun light c) low wind velocity  
d) all of these  
**Answer : Decrease in atmospheric pressure (a)**
- Fall in temperature affects the transpiration as follows :-  
a) No effect b) Reduces the rate of transpiration c) Increases the transpiration  
d) All of these  
**Answer : Reduces the rate of transpiration (b)**
- The amount of water in the soil causes \_\_\_\_\_ effect on transpiration.  
a) Indirect b) Direct c) no effect d) None of these  
**Answer : Indirect (a)**

9. Xerophytic plants have lower rate of transpiration because of:-  
a) Sunken stomata b) Thick cuticle c) presence of spines d) All of these

**Answer : All of these (d)**

10. The hormone which is called as a natural antitranspirant:-  
a) Cytokinin b) Auxin c) Absciscic acid d) Ethylene

**Answer : Absciscic acid (b)**

11. The hormone which plays the role in the influx of  $K^+$  ions into the guard cell :-  
a) Cytokinin b) Absciscic acid c) Auxin d) both (a) and (b)

**Answer : Both (a) and (b)**

12. Which day will have maximum rate of transpiration:-  
a) Hot and Humid b) Humid and cold c) Hot and dry d) Cold and dry

**Answer : Hot and dry (c)**

13. The rate of transpiration is lowest on a:-  
a) Sunny day b) Rainy winter day c) Winter day d) None of these

**Answer : Rainy winter day (b)**

14. The rate of transpiration \_\_\_\_\_ with decrease in  $CO_2$  concentration.  
a) Increases b) decreases c) Not affected d) None of these

**Answer : Increases (a)**

15. An extreme windy condition causes \_\_\_\_\_ of the stomata.  
a) Opening b) Closing c) no effect d) breaking of stomata

**Answer : Closing (b)**