ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORK SHEET – 26 (solutions)

Class: IX Sub: Life Science Date: 13.05.2020

Topic- Transpiration Part 1 F.M. : 15

Choose the correct option: (1x15=15)

1. The loss of water from the aerial parts of the plants -
   a) Evaporation b) Photorespiration c) Transpiration d) None of these
   Answer : Transpiration (c)
2. The following are the types of transpiration :-
   a) Cuticular b) Lenticular c) Stomatal d)All of these
   Answer : All of these (d)
3. The waxy layer on the leaf which prevents transpiration:-
   a) Cuticle b) Epidermis c) Lenticel d) None of these
   Answer : Cuticle (a)
4. Loss of water vapour through the cuticular surface of leaf :-
   a) Stomatal transpiration b) Cuticular transpiration c) Lenticular transportation
   d) All of these
   Answer : Cuticular transpiration (b)
5. Lenticels are _____ shaped structure found on the bark of tree :-
   a) Reniform b) dumb bell shaped c) Lens shaped d) Drum shaped
   Answer : Lens shaped (c)
6. The loose mass of cells found in the Lenticel which help in Transpiration are called :-
   a) Epidermis b) Periderm c) Complimentary cells d) Cortical cells
   Answer : Complimentary cells (c)
7. Loss of water through the pores of leaves called :-
   a) Cuticular transpiration b) Lenticular transpiration c) Stomatal transpiration
   d) Guttation
   Answer : Stomatal Transpiration (c)
8. Lenticels are found in :-
   a) Periderm b) Fruit walls c)On leaf d) both (a) and (b)
   Answer :Both (a) and (b) (d)
9. Stomata are not found on the surface of:-
   a) Leaves b) Young Stem c) floral parts d) Submerged hydrophytes
   Answer : Submerged hydrophytes (d)

10. The percentage of transpiration by stomatal transpiration is:-
    a) 80-90 % b) 10-15 % c) 20-30 % d) 5-10 %
    Answer : 80-90 % (a)
11. The scientist who proposed potassium infiltration theory :-
    a) Steward b) Levitt c) Dixon and Jolly d) none of these
    Answer :Levitt (b)
12. During the night the PH in the guard cell becomes 5 due to the synthesis of:-
    a) Oxaloacetic acid b) Citric acid c) Malic acid d) Hydrochloric acid
    Answer : Malic acid (c)
13. The infiltration of potassium ion inside the guard cell results in the formation of :-
    a) Malic acid b) potassium malate c) potassium chloride d) potassium acetate
    Answer : Potassium malate (b)
14. The closure of the stomata is brought about when :-
    a) guard cell becomes turgid b) guard cell becomes flaccid c) chloroplast in the guard cell break down d) none of the above
    Answer : Guard cell becomes flaccid (b)
15. According Starch-Sugar Inter conversion theory :-
    a) Starch gets converted glucose-1- phosphate b) Starch remains unchanged c) Sugar gets converted to starch d) none of these
    Answer : Starch gets converted glucose-1-phosphate (a)

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