ISA Arborist Certification Study Guide Chapter 1 Questions with Complete Solutions

Meristems - ANSWER-Sites of rapid cell division in the shoot tips, root tips, and cambium are called
Apical - ANSWER-Meristems located at the end of the shoots are called primary or meristems.
Apical dominance - ANSWER-The tendency for terminal buds to inhibit the growth of lateral buds is called
Leaves - ANSWER-The "food factories" of trees are the
Photosynthesis, Oxygen - ANSWER-The procress of combines carbon dioxide and water in the reaction driven by light to produce sugars is also a product of this reaction.
Chlorophyll - ANSWER-The green color of leaves is created by the presence of, which is necessary for photosynthesis.
Transpiration - ANSWER is the loss of water vapor from the leaves.
Stomata, guard cells - ANSWER-The opening and closing of allow for gas exchange, and transpiration is controlled by the
Xylem, Phloem - ANSWER-Water and dissolved essential minerals are transported within the tree in the The conducts carbohydrates.
Cambium - ANSWER-The is a layer of meristematic cells located between the phloem and xylem.
Branch collar, Branch bark ridge - ANSWER-The is formed when trunk tissue grows around branch tissues. As the branch and trunk tissues expanded against each other in the branch union, the is formed.
Bark - ANSWER protects the branches and trunk of a tree from mechanical injury and desiccation.

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