Landscape Horticulturist

Exam Preparation
Helping you Succeed

1. Indeterminate growth is beneficial for stationary organisms such as plants because

   A. it ensures that they have set body plan and will stop growing when they reach a specific development stage

   B. it allows them to grow upwards instead of outwards in order to gain better access to light

   C. it ensures that growth can only occur at the tips of roots and shoots

   D. it allows them to alter their growth throughout their lifetime in response to external stimuli

2. An example of items commonly used as a focal point in the non-public are of the home landscape are:

   A. large trees, the front door,concrete walls, and windows.

   B. specimen plants, birdbaths, statuary, and fountains.

   C. turf pads, tall plants, and hedges.

   D. tall single-trunk trees, walkways, and vegetable gardens.

3. What is the common name for the disease characterized by a white to gray powdery growth on leaves?

   A. Mealy fungi syndrome

   B. Cedar-apple rust

   C. Powdery scale

   D. Powdery mildew

4. Explain why raised beds might not eliminate the need for fertilizer in a garden.

   A. Raised beds can lead to nutrient depletion over time.

   B. Raised beds are designed to be self-sustaining.

   C. Raised beds do not require any soil management.

   D. Raised beds automatically provide nutrients to plants.

5. You are tasked with improving the drainage of a garden area with heavy clay soil. Which method would be most effective for incorporating organic matter into the soil, and why?

   A. Employing a rear blade tiller to thoroughly mix the amendments into the soil.

   B. Using a shovel to create holes for the amendments.

   C. Applying amendments on the surface and waiting for rain to wash them in.

   D. Using a hand trowel to mix in the amendments manually.

6. Describe how soil core cultivars contribute to soil health and plant growth.

   A. Soil core cultivars improve soil aeration and water infiltration, which enhances plant growth.
   B. Soil core cultivars prevent soil erosion by compacting the soil.
   C. Soil core cultivars are used to add nutrients directly to the soil.
   D. Soil core cultivars primarily focus on increasing soil temperature.

7. Explain how pinching terminal ends of poinsettias affects their overall growth and appearance.

   A. It encourages lateral branching
   B. It reduces leaf size
   C. It stunts their growth
   D. It leads to taller plants

8. Which of the following fertilizers acts fastest in cool weather?

   A. inorganic synthetic type
   B. ammonium
   C. organic
   D. none of the above

9. A cover crop is

   A. trees planted across hillsides to reduce over land flow of runoff
   B. the use of plastic to cover winter vegetable crops to reduce runoff and increase soil temperature
   C. always incorporated into the soil
   D. any crop grown to provide soil cover. It can be incorporated as a "green manure".

10. If a farmer is experiencing high levels of fungal infections in their orchard, which strategy should they implement alongside pruning to further reduce disease prevalence?

    A. Increase the use of chemical fertilizers.
    B. Implement a regular irrigation schedule.
    C. Introduce beneficial microorganisms to the soil.
    D. Plant more tree crops in close proximity.

1003. Mulches are applied in landscape to

A. Prevent erosion
B. Conserve water
C. Reduce weed growth
D. All

1004. When constructing a curved wooden border for a garden, what is the recommended method for ensuring the boards follow the curve effectively?

A. Employ a series of 1x6 boards, overlapping them at the joints and securing with nails every 16 inches.
B. Implement at least five 3/8" 6" boards, tightly laminated with staggered joints at least 36" apart and supports spaced no more than 2ft o.c.
C. Use a single 2x4 board and bend it to shape, securing it with screws every 24 inches.
D. Utilize at least three 1x4 boards, laminated together with staggered joints and secured with screws every 12 inches.

1005. What is the primary role of contractile roots in plants?

A. To absorb water and nutrients from the soil
B. To anchor the plant firmly in the ground
C. To store carbohydrates for later use
D. To pull the plant deeper into the soil

1006. A plant species that is dioecious includes plants that:

A. have flowers with both stamens and pistils on the same plant.
B. have flowers with only sepals and petals.
C. have perfect flowers.
D. have either flowers with stamens or flowers with pistils but not both.

1007. What term describes a plant that possesses both male flowers and perfect flowers on the same individual?

A. Andromonoecious
B. Dioecious
C. Monoecious
D. Gynomonoecious

1008. Members of the Lamiaceae family are characterized by the production of complex volatile substances which generally include this type of molecule:

A phenylpropanoids

B cardiac glucoside

C antiseptic monoterpenes

D volatile sulfur compounds

1009. Explain the difference between sexual and asexual propagation in plants.

A Sexual propagation involves seeds, while asexual propagation does not.

B Sexual propagation is faster than asexual propagation.

C Asexual propagation requires pollination, while sexual propagation does not.

D Both methods produce genetically identical plants.

1010. How can harmony be created?

A By choosing elements of different scales

B By choosing bold colors for important spaces.

C By choosing pieces of similar scale, color, shape, etc.

D By adding a variety of colors to the space

1011. In which specific region of the root does the apical root meristem primarily function to promote growth?

A Zone of Maturation

B Root Cap

C Zone of Elongation

D Zone of Cell Division

1012. What role does the epidermis play in plant physiology?

A It acts as a protective barrier and regulates gas exchange.

B It stores nutrients and water for the plant.

C It facilitates photosynthesis by containing chlorophyll.

D It is responsible for the transport of water and minerals.

1013. Describe how a silt fence contributes to maintaining water quality during construction activities.

(A) A silt fence provides nutrients to the soil during construction.

(B) A silt fence helps prevent sediment from entering water bodies by filtering runoff.

(C) A silt fence is used to irrigate plants in dry areas.

(D) A silt fence is primarily for aesthetic purposes in landscaping.

1014. What does a sprinkler head with too high of a pressure look like when running?

(A) Fine mist, mostly blowing away

(B) No different than one operating with low pressure

(C) Large droplets landing close to the head

(D) Perfect