

2023 Tarleton Invitational Nursery Landscape Practicum

Topic: Plant Pests

1. Which of the following insect orders contain butterflies and moths?
  - a. Lepidoptera
  - b. Diptera
  - c. Hemiptera
  - d. Hymenoptera
2. Insects with four stages of life starting with egg, to larvae, to pupae, to adult undergo \_\_\_\_\_ ?
  - a. Incomplete metamorphosis
  - b. Complete metamorphosis
  - c. Gradual metamorphosis
  - d. Immature metamorphosis
3. Spider mites cause injury to plants using their \_\_\_\_\_ .
  - a. chewing mouth parts
  - b. tunneling methods through the leaf tissue leaving trails
  - c. sword-like mouthparts to rasp open plant material
  - d. piercing-sucking mouthparts
4. Based on a  $3/32'' = 1'$  scale, what is the area of the Proposed Patio Area labeled "B" located in the back yard?
  - a. 25.12 sq. ft.
  - b. 631.01 sq. ft.
  - c. 402.36 sq. ft.
  - d. 200.96 sq. ft.
5. Based on a  $3/32'' = 1'$  scale, what is the approximate area of the front flower bed labeled "F"?
  - a. 126 sq ft
  - b. 246 sq ft
  - c. 328 sq ft
  - d. None of the above

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6. If the designer calculated there to be 936 sq ft of flower beds, how many cubic yards of mulch would be needed to mulch to a depth of 3”?
- a. 8.67 cu yd
  - b. 96.45 cu yd
  - c. 234 cu yd
  - d. 2,106.02 cu yd
7. Using the  $\frac{3}{16}'' = 1'$  scale, the home owner decides to replace the back fence. What is the length of fence to be replaced?
- a. 19 ft
  - b. 56 ft
  - c. 76 ft
  - d. None of the above
8. Which of the following is not a benefit or value of insects to a gardener, grower, or landscaper?
- a. pollination of flowers for fruit and vegetable production
  - b. improve the physical condition of soil and promote it's fertility
  - c. opening tissue to disease-causing pathogens
  - d. some beneficial insects feed on industry damaging insects
9. What is the approximate total area covered by Existing Rhododendrons labeled “1” on the side of the front yard using the  $\frac{3}{32}'' = 1'$  scale?
- a. 192 sq. ft.
  - b. 264 sq. ft.
  - c. 456 sq. ft.
  - d. 659 sq. ft.
10. Which of the following insects typically secrete a sticky honeydew around feeding sites that can lead to sooty or black mold on the leaf surface?
- a. aphids
  - b. mealybugs
  - c. scale
  - d. All of the above