#### NAME

# UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION 2020 UC MASTER GARDENER TRAINING Control of Weeds in the Garden and Landscape

1. What is the simplest definition of a weed?

A plant growing where it is not wanted

#### UCMG Handbook, page 200

- 2. List four traits that make weeds 'noteworthy' in the eyes of a weed scientist:
  - a. Seed Dormancy
  - b. Long-term survival of buried seed
  - c. Abundant seed production
  - d. Rapid population establishment

Other answers could include: capacity to occupy sites disturbed by human activities, multiple adaptations for spread, often including vegetative reproductive structures.

# **UCMG Handbook, page 200**

3. Invasive plants occur in natural habitats. An important difference between invasive plants and many garden weeds is that invasive plants can disperse, establish, then spread in uncultivated areas. Invasive plants are more problematic in natural environments.

# UCMG Handbook, page 201

- 4. Please list the three weed ID reference resources listed on page 202 of the UCMG Handbook:
  - a. Weeds of California and Other Western States (DiTomaso and Healy 2007)
  - b. Weed Pest Identification and Monitoring Cards (DiTomaso 2013)
  - c. Weeds of the West (Burrill et al. 2006)
  - d. UC IPM Website (ipm.ucdavis.edu/PMG/)
- 5. Name and define the three lifecycle classifications of weeds:
  - a. Annuals complete their life cycle from seed to seed in 1 year or less
  - b. Biennials complete their life cycle in 2 years
  - c. Perennials live longer than two years and usually have a more extensive root system

#### UCMG Handbook, page 203

- 6. What are the two taxonomic groups of weeds:
  - a. Dicots (broadleaves)
  - b. Monocots (grasses and sedges)

# UCMG Handbook, page 204

7. The goal of any weed management program is to: select the most effective practice that is the least harmful to people and the environment and to apply it at the proper time.

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- 8. List and define the four primary classifications of weed control methods used by gardeners:
  - a. Cultural modify the immediate environment, improving the crop's competitive advantage
  - b. Mechanical cultivation: hoeing, hand pulling, rototilling, disking, mowing, chopping
  - c. Physical physical barrier or heat: mulches, weed mats, black plastic, soil solarization
  - d. Chemical herbicides that kill plants

# UCMG Handbook, page 208

9. A herbicide application is preemergent if it is made before the weed seeds germinate. Preemergents are also referred to as soil-residual herbicides because they prevent seed germination for a period of time.

### **UCMG Handbook, page 209**

10. A herbicide application is postemergent if it is made to the weed foliage and must be applied to living emerged plants to be effective. Most do not have any soil activity.

# UCMG Handbook, page 209

11. A contact herbicide is a chemical that kills only those parts of the plant it touches. A systemic herbicide is absorbed into the plant and moves through the plant's conductive tissue by translocation.

# UCMG Handbook, page209-210

12. What is the difference between a selective versus a nonselective herbicide?

Nonselective herbicides should be used when all vegetation is to be killed. Selective herbicides should be used when certain specific weeds are to be killed without injuring desirable plants.

# UCMG Handbook, page 210