Maryland
Department of Agriculture

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Office of Resource Conservation

Nutrient Management Program

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Maryland Department of Agriculture/University of Maryland Extension

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Course # 3995

Post-Program Quiz for Nursery/Greenhouse/Controlled Environment Certified Farm Operator (CFO) Credits

Complete this quiz with the information you learn from the webinar presentations. You must answer all the items **correctly** and submit this form to MDA to earn **1 credit** for renewal of your CFO certification. Please print your answers clearly. You must include your printed name and CFO number as shown on your certificate, your signature, date completed and your contact information.

Mail completed forms to Maryland Department of Agriculture, Nutrient Management Program, 50 Harry S. Truman Parkway, Annapolis, MD 20401, no later than 3 business days after you view the program. Keep a copy for your records.

Circle the best answer.

1. What are the 3 R's of irrigation management?
    a. Right time, right place, right nutrients
    b. Right place, right time, right amount
    c. Right place, right amount, right nutrients
    d. Right time, right amount, right nutrients
2. What are some things you should consider when increasing your irrigation system's efficiency?
    a. Install pressure gauges
    b. Check and replace old emitters
    c. Perform leaching fraction tests
    d. Perform application uniformity tests.
    e. All of the above
3. When considering the trajectory of your sprinkler in your irrigation design, having a larger droplet size can:
    a. Increase uniformity
    b. Decrease the effect of wind drift
    c. Increase the effect of wind drift
    d. Increase evaporation potential

4. Your 360 degree sprinkler has a 8 GPM precipitation rate. To match the precipitation rate, your 90 degree sprinkler head should have a precipitation rate of:
    a. 1 GPM
    b. 4 GPM
    c. 2 GPM
    d. 8 GPM
5. What percentage of overhead irrigation overlap would give the best application uniformity?
    a. Head to head coverage (100% overlap of adjacent sprinkler head)
    b. 25% overlap
    c. 40% overlap
    d. 30% overlap
6. What causes low irrigation efficiency?
    a. Poor irrigation system design
    b. Evaporation or wind drift during application
    c. Surface runoff or leaching below the root zone
    d. All of the above
7. T/F Christiansen's Coefficient of Uniformity (CCU) only considers the driest areas (25%) in an irrigation zone.

8. Cyclic irrigation can potentially improve irrigation efficiency by:
    a. Reducing the frequency of irrigation events and reducing the total leaching fraction
    b. Reducing the duration of irrigation events and reducing the leaching fraction
    c. Increasing the duration of irrigation events and reducing the leaching fraction
    d. Increasing the duration of irrigation events and increasing the leaching fraction
9. One of the three things you can do to increase irrigation application efficiency:
    a. Group plants by water needs
    b. Group container sizes
    c. Use the same substrate for irrigation groups
    d. Group plants by their ability to capture water (architecture)
    e. All of the above
10. What is deficit irrigation?
    a. Irrigating to replace the water that a plant uses within a day
    b. Irrigating to replace half of the water a plant uses within a day
    c. Irrigating to replace a quarter of the water a plant uses within a day
    d. Irrigating to replace less than the amount of water a plant uses within a day.